APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY RECORDS



May 31, 2022

Alan Sundquist CDW Consultants, Inc. 4 California Drive, Suite 301 Framingham, MA 01760

Project Location: 240 Beaver St., Waltham, MA

Client Job Number: Project Number: 1830.1

Laboratory Work Order Number: 22E0834

Keny K. Mille

Enclosed are results of analyses for samples as received by the laboratory on May 12, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

Table of Contents

| Sample Summary | 4 |
|----------------------------------------------------------------------|----|
| Case Narrative | 5 |
| Sample Results | 9 |
| 22E0834-01 | 9 |
| 22E0834-02 | 17 |
| Sample Preparation Information | 20 |
| QC Data | 22 |
| Volatile Organic Compounds by GC/MS | 22 |
| B308386 | 22 |
| Semivolatile Organic Compounds by GC/MS | 27 |
| B308526 | 27 |
| Organochloride Pesticides by GC/ECD | 31 |
| B308354 | 31 |
| Polychlorinated Biphenyls By GC/ECD | 34 |
| B308353 | 34 |
| Herbicides by GC/ECD | 35 |
| B309280 | 35 |
| Petroleum Hydrocarbons Analyses | 37 |
| B308525 | 37 |
| Metals Analyses (Total) | 38 |
| B308621 | 38 |
| B309067 | 39 |
| Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) | 40 |
| B308341 | 40 |
| B308429 | 40 |

Table of Contents (continued)

| | B308563 | 4(|
|---------|---------------------------|----|
| | B308564 | 40 |
| å. | B308571 | 4(|
| Pestici | ides Degradation Report | 42 |
| Dual C | Column RPD Report | 4: |
| Flag/Q | Qualifier Summary | 54 |
| Certifi | cations | 5: |
| Chain | of Custody/Sample Receipt | 62 |



CDW Consultants, Inc. 4 California Drive, Suite 301 Framingham, MA 01760 ATTN: Alan Sundquist •

REPORT DATE: 5/31/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

1830.1

22E0834

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION:

240 Beaver St., Waltham, MA

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|------------------|------------|--------|--------------------|----------------------|---------|
| Comp #1 (2-10ft) | 22E0834-01 | Soil | | SM 2540G | |
| | | | | SM21-23 2510B | |
| | | | | Modified | |
| | | | | SW-846 1010A-B | |
| | | | | SW-846 6010D | |
| | | | | SW-846 7471B | |
| | | | | SW-846 8081B | |
| | | | | SW-846 8082A | |
| | | | | SW-846 8100 Modified | |
| | | | | SW-846 8151A | |
| | | | | SW-846 8270E | |
| | | | | SW-846 9014 | |
| | | | | SW-846 9030A | |
| | | | | SW-846 9045C | |
| GP 3-5 (4-6ft) | 22E0834-02 | Soil | | SM 2540G | |
| | | | | SW-846 8260D | |
| | | | | | |



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report. For method 8151 samples were derivatized on 05/27/22.

For method 8151 samples analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.



SW-846 6010D

Qualifications:

M-10

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side. Analyte & Samples(s) Qualified:

Lead

22E0834-01[Comp #1 (2-10ft)], B308621-SRM1

SW-846 8081B

Qualifications:

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22E0834-01[Comp #1 (2-10ft)]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

22E0834-01[Comp #1 (2-10ft)]

Decachlorobiphenyl [2C]

22E0834-01[Comp #1 (2-10ft)]

Tetrachloro-m-xylene

22E0834-01[Comp #1 (2-10ft)]

Tetrachloro-m-xylene [2C]

22E0834-01[Comp #1 (2-10ft)]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. Analyte & Samples(s) Qualified:

Decachlorobiphenyl

22E0834-01[Comp #1 (2-10ft)]

Decachlorobiphenyl [2C]

22E0834-01[Comp #1 (2-10ft)]

Tetrachloro-m-xylene

22E0834-01[Comp #1 (2-10ft)]

Tetrachloro-m-xylene [2C]

22E0834-01[Comp #1 (2-10ft)]

SW-846 8100 Modified

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

22E0834-01[Comp #1 (2-10ft)]

SW-846 8151A

Oualifications:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

22E0834-01[Comp #1 (2-10ft)]



S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not

affected.
Analyte & Samples(s) Qualified:

2,4-Dichlorophenylacetic acid 22E0834-01[Comp #1 (2-10ft)]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

MCPP

B309280-BLK1, B309280-BS1, B309280-BSD1

SW-846 8260D

Qualifications:

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and

Analyte & Samples(s) Qualified:

1.2-Dichloroethane-d4

22E0834-02[GP 3-5 (4-6ft)]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported

result. Analyte & Samples(s) Qualified:

1,4-Dioxane

B308386-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is

estimated. nalyte & Samples(s) Qualified:

Bromomethane

22E0834-02[GP 3-5 (4-6ft)], B308386-BLK1, B308386-BS1, B308386-BSD1, S071520-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. Analyte & Samples(s) Qualified:

2-Butanone (MEK)

B308386-BS1, B308386-BSD1, S071520-CCV1

2-Hexanone (MBK)

B308386-BS1, B308386-BSD1, S071520-CCV1

SW-846 8270E

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this

compound.
Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

22E0834-01[Comp #1 (2-10ft)], B308526-BLK1, B308526-BS1, B308526-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Aniline

22E0834-01[Comp #1 (2-10ft)], B308526-BLK1, B308526-BS1, B308526-BSD1, S071740-CCV1

Bis(2-chloroisopropyl)ether

B308526-BLK1, B308526-BS1, B308526-BSD1, S071740-CCV1



V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated

estimated.
Analyte & Samples(s) Qualified:

4-Chloroaniline

22E0834-01[Comp #1 (2-10ft)], B308526-BLK1, B308526-BS1, B308526-BSD1, S071740-CCV1

Bis(2-chloroisopropyl)ether 22E0834-01[Comp #1 (2-10ft)]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski Laboratory Director

Page 9 of 64



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01
Sample Matrix: Soil

| | | | Semivol | atile Organic C | ompounds by | GC/MS | | | | |
|---------------------------------|----------|-----|---------|------------------------|-------------|-----------|------------------------------|--------------------|------------------------------|------------|
| | | | | | | | | Date | Date/Time | |
| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Prepared | Analyzed | Analyst |
| Biphenyl | ND | 4.6 | 0.36 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Acenaphthene | ND | 1.2 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Acenaphthylene | ND | 1.2 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Acetophenone Aniline | ND | 2.3 | 0.45 | mg/Kg dry | 5 | **** | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Anthracene | ND | 2.3 | 0.40 | mg/Kg dry | 5 | V-05 | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Benzo(a)anthracene | ND ND | 1.2 | 0.47 | mg/Kg dry | 5 5 | | SW-846 8270E SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Benzo(a)pyrene | ND | 1.2 | 0.41 | mg/Kg dry mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 5/16/22 | 5/19/22 0:08 | IMR |
| Benzo(b)fluoranthene | ND | 1.2 | 0.41 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 5/19/22 0:08 | IMR IMR |
| Benzo(g,h,i)perylene | ND | 1.2 | 0.50 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Benzo(k)fluoranthene | ND | 1.2 | 0.40 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Bis(2-chloroethoxy)methane | ND | 2.3 | 0.44 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Bis(2-chloroethyl)ether | ND | 2.3 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Bis(2-chloroisopropyl)ether | ND | 2.3 | 0.62 | mg/Kg dry | 5 | V-34 | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Bis(2-Ethylhexyl)phthalate | ND | 2.3 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 4-Bromophenylphenylether | ND | 2.3 | 0.43 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Butylbenzylphthalate | ND | 2.3 | 0.42 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 4-Chloroaniline | ND | 4.5 | 0.30 | mg/Kg dry | 5 | V-34 | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2-Chloronaphthalene | ND | 2.3 | 0.40 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2-Chlorophenol | ND | 2.3 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Chrysene | ND | 1.2 | 0.43 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Dibenz(a,h)anthracene | ND | 1.2 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Dibenzofuran | ND | 2.3 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Di-n-butylphthalate | ND | 2.3 | 0.41 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 1,2-Dichlorobenzene | ND | 2.3 | 0.42 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 1,3-Dichlorobenzene | ND | 2.3 | 0.41 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| ,4-Dichlorobenzene | ND | 2.3 | 0.41 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 3,3-Dichlorobenzidine | ND | 1.2 | 0.31 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2,4-Dichlorophenol | ND | 2.3 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Diethylphthalate | ND | 2,3 | 0.43 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2,4-Dimethylphenol | ND | 2.3 | 0.59 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Dimethylphthalate | ND | 2.3 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 4.4-Dinitrophenol | ND | 4.5 | 2.0 | mg/Kg dry | 5 | R-05 | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 4,4-Dinitrotoluene | ND | 2.3 | 0.48 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| .,6-Dinitrotoluene | ND | 2.3 | 0.51 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Di-n-octylphthalate | ND | 2.3 | 0.67 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| ,2-Diphenylhydrazine/Azobenzene | ND | 2.3 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| luoranthene | ND | 1.2 | 0.43 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| luorene | ND | 1.2 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Iexachlorobenzene | 0.73 | 2.3 | 0.45 | mg/Kg dry | 5 | J | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| [exachlorobutadiene | ND | 2.3 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Iexachloroethane | ND | 2.3 | 0.44 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| ndeno(1,2,3-cd)pyrene | ND | 1.2 | 0.52 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| sophorone | ND | 2.3 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

58.1

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01
Sample Matrix: Soil

p-Terphenyl-d14

| | | | Semive | olatile Organic Co | ompounds by | GC/MS | | | | |
|------------------------|---------|--------|--------|--------------------|-------------|-----------|--------------|------------------|-----------------------|--------|
| Analyte | Results | RL | DL | Units | Düntlon | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analys |
| 2-Methylnaphthalene | ND | 1.2 | 0.51 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2-Methylphenol | ND | 2.3 | 0.49 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 3/4-Methylphenol | ND | 2.3 | 0.49 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Naphthalene | ND | 1.2 | 0.46 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Nitrobenzene | ND | 2.3 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2-Nitrophenol | ND | 2.3 | 0.49 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 4-Nitrophenol | ND | 4.5 | 1.0 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Pentachlorophenol | ND | 2.3 | 0.93 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Phenanthrene | ND | 1.2 | 0.47 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Phenol | ND | 2.3 | 0.51 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Pyrene | ND | 1.2 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Pyridine | ND | 2.3 | 0.33 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 1,2,4-Trichlorobenzene | ND | 2.3 | 0.44 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2,4,5-Trichlorophenol | ND | 2.3 | 0.45 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| 2,4,6-Trichlorophenol | ND | 2.3 | 0.44 | mg/Kg dry | 5 | | SW-846 8270E | 5/16/22 | 5/19/22 0:08 | IMR |
| Surrogates | | % Reco | very | Recovery Limit | S | Flag/Qual | | | | |
| 2-Fluorophenol | | 50.9 | | 30-130 | | | | | 5/19/22 0:08 | |
| Phenol-d6 | | 48.4 | | 30-130 | | | | | 5/19/22 0:08 | |
| Nitrobenzene-d5 | | 47.5 | | 30-130 | | | | | 5/19/22 0:08 | |
| 2-Fluorobiphenyl | | 61.4 | | 30-130 | | | | | 5/19/22 0:08 | |
| 2,4,6-Tribromophenol | | 59.8 | | 30-130 | | | | | 5/19/22 0:08 | |

30-130

5/19/22 0:08



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01
Sample Matrix: Soil

| Sample Flags: RL-11 | | | Or | ganochloride Pesti | cides by GC | ÆCD | | | | |
|--------------------------|---------|--------|-------|--------------------|-------------|-----------|--------------|------------------|-----------------------|---------|
| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
| Aldrin [1] | ND | 1.4 | 0.12 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| alpha-BHC [1] | ND | 1.4 | 0.58 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | ЛМВ |
| beta-BHC [1] | ND | 1.4 | 0.49 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| delta-BHC [1] | ND | 1.4 | 0.66 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| gamma-BHC (Lindane) [1] | ND | 0.55 | 0.13 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Chlordane [1] | ND | 5.5 | 2.1 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| 4,4'-DDD [2] | 34 | 1.1 | 0.099 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| 4,4'-DDE [1] | 3.2 | 1.1 | 0.11 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| 4,4'-DDT [1] | 1400 | 110 | 13 | mg/Kg dry | 20000 | | SW-846 8081B | 5/13/22 | 5/22/22 13:57 | JMB |
| Dieldrin [1] | 7.8 | 1.1 | 0.10 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Endosulfan I [1] | ND | 1.4 | 0.47 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Endosulfan II [1] | ND | 2.2 | 0.47 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Endosulfan sulfate [1] | ND | 2.2 | 0.50 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Endrin [1] | ND | 2.2 | 0.47 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Endrin ketone [1] | ND | 2.2 | 0.61 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Heptachlor [1] | ND | 1.4 | 0.15 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Heptachlor epoxide [1] | ND | 1.4 | 0.12 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| lexachlorobenzene [1] | ND | 1.6 | 0.62 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Methoxychlor [1] | ND | 14 | 1.7 | mg/Kg dry | 200 | | SW-846 8081B | 5/13/22 | 5/22/22 13:30 | JMB |
| Surrogates | | % Reco | very | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | | * | 30-150 | | S-01 | | | 5/22/22 13:30 | |
| Decachlorobiphenyl [2] | | | * | 30-150 | | S-01 | | | 5/22/22 13:30 | |
| Tetrachloro-m-xylene [1] | | | * | 30-150 | | S-01 | | | 5/22/22 13:30 | |
| Tetrachloro-m-xylene [2] | | | * | 30-150 | | S-01 | | | 5/22/22 13:30 | |



Polychlorinated Biphenyls By GC/ECD

Project Location: 240 Beaver St., Waltham, MA

Analyte

Sample Description:

RL

Results

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01 Sample Matrix: Soil

| | | | | Date | Date/Time | | |
|-----------|----------|-----------|--------------|----------|--------------|---------|--|
| Units | Dilution | Flag/Qual | Method | Prepared | Analyzed | Analyst | |
| mg/Kg dry | 400 | | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA | |
| mg/Kg dry | 400 | | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA | |
| mg/Kg dry | 400 | | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA | |
| mg/Kg dry | 400 | | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA | |

| 0 | | 44.00 | | | | | | |
|------------------|----|-------|-----------|-----|--------------|---------|--------------|-----|
| Aroclor-1268 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1262 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1260 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1254 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1248 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1242 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1232 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1221 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |
| Aroclor-1016 [1] | ND | 11 | mg/Kg dry | 400 | SW-846 8082A | 5/13/22 | 5/19/22 8:47 | JEA |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|--------------------------|------------|-----------------|-----------|--------------|
| Decachlorobiphenyl [1] | * | 30-150 | S-01 | 5/19/22 8:47 |
| Decachlorobiphenyl [2] | * | 30-150 | S-01 | 5/19/22 8:47 |
| Tetrachioro-m-xylene [1] | * | 30-150 | S-01 | 5/19/22 8:47 |
| Tetrachloro-m-xylene [2] | * | 30-150 | S-01 | 5/19/22 8:47 |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01

Sample Matrix: Soil
Sample Flags: O-32

Herbicides by GC/ECD

| | | | | | | | | Date | Date/Time | |
|-----------------------------------|---------|--------|------|-----------------|----------|-----------|--------------|----------|---------------|---------|
| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Prepared | Analyzed | Analyst |
| 2,4-D [2] | ND | 140 | 12 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| 2,4-DB [2] | ND | 140 | 27 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| 2,4,5-TP (Silvex) [2] | ND | 14 | 1.5 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| 2,4,5-T [2] | ND | 14 | 1.9 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| Dalapon [2] | ND | 340 | 21 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| Dicamba [2] | ND | 14 | 1.9 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| Dichloroprop [2] | ND | 140 | 26 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| MCPA [2] | ND | 14000 | 2100 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| MCPP [2] | ND | 14000 | 1800 | μg/kg dry | 4 | | SW-846 8151A | 5/25/22 | 5/29/22 10:10 | JMB |
| Surrogates | | % Reco | very | Recovery Limits | | Flag/Qual | | | | |
| 2,4-Dichlorophenylacetic acid [1] | | 566 | * | 30-150 | | S-12 | | | 5/29/22 10:10 | |
| 2,4-Dichlorophenylacetic acid [2] | | 101 | | 30-150 | | | | | 5/29/22 10:10 | |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01

Sample Matrix: Soil

| Petroleum | Hydrocarbons Anal | yses |
|-----------|-------------------|------|
|-----------|-------------------|------|

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------|---------|------------|-----------------|----------|-----------|----------------------|------------------|-----------------------|---------|
| TPH (C9-C36) | 2600 | 570 | mg/Kg dry | 50 | | SW-846 8100 Modified | 5/16/22 | 5/19/22 0:39 | SFM |
| Surrogates | | % Recovery | Recovery Limits | 5 | Flag/Qual | | | | |
| 2-Fluorobiphenyl | | * | 40-140 | | S-01 | | | 5/19/22 0:39 | |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01

Sample Matrix: Soil

| | | | | Metals Analy | yses (Total) | | | | | |
|-----------|---------|---------|-------|--------------|--------------|-----------|--------------|------------------|-----------------------|---------|
| | Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
| Antimony | | ND | 2.2 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Arsenic | | 9.8 | 4.4 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЛН |
| Barium | | 82 | 2.2 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Beryllium | | 0.36 | 0.22 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Cadmium | | 0.47 | 0.44 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Chromium | | 24 | 0.89 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Lead | | 170 | 0.67 | mg/Kg dry | 1 | M-10 | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЛН |
| Mercury | | 0.40 | 0.035 | mg/Kg dry | 1 | | SW-846 7471B | 5/23/22 | 5/23/22 18:15 | TDK |
| Nickel | | 24 | 0.89 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Selenium | | ND | 4.4 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Silver | | ND | 0.44 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/24/22 16:57 | MJH |
| Thallium | | ND | 2.2 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Vanadium | | 160 | 0.89 | mg/Kg dry | ı | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |
| Zinc | | 160 | 0.89 | mg/Kg dry | 1 | | SW-846 6010D | 5/17/22 | 5/21/22 21:41 | МЈН |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: Comp #1 (2-10ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------------------|----------|-----|----------|----------|-----------|---------------------------|------------------|-----------------------|---------|
| % Solids | 73.0 | | % Wt | 1 | | SM 2540G | 5/20/22 | 5/21/22 10:16 | BLS |
| Flashpoint | > 212 °F | | °F | 1 | | SW-846 1010A-B | 5/17/22 | 5/17/22 14:50 | DET |
| pH @20.3°C | 7.9 | | pH Units | 1 | | SW-846 9045C | 5/12/22 | 5/12/22 21:05 | JEC |
| Reactive Cyanide | ND | 3.9 | mg/Kg | ı | | SW-846 9014 | 5/17/22 | 5/18/22 17:25 | EC |
| Reactive Sulfide | ND | 19 | mg/Kg | 1 | | SW-846 9030A | 5/17/22 | 5/18/22 16:10 | EC |
| Specific conductance | 9.7 | 2.0 | μmhos/cm | 1 | | SM21-23 2510B Modified | 5/14/22 | 5/14/22 13:00 | EC |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: GP 3-5 (4-6ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-02
Sample Matrix: Soil

| Volatile | Organic | Compounds | by CC/MS |
|----------|---------|-----------|----------|
| | | | |

| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|---------|-----------|----------|-----------|--------------|------------------|-----------------------|---------|
| Acetone | 0.038 | 0.14 | 0.013 | mg/Kg dry | 1 | J | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0014 | 0.00050 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Benzene | 0.0011 | 0.0027 | 0.00075 | mg/Kg dry | 1 | J | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Bromobenzene | ND | 0.0027 | 0.00050 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Bromochloromethane | ND | 0.0027 | 0.0012 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Bromodichloromethane | ND | 0.0027 | 0.00067 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Bromoform | ND | 0.0027 | 0.00085 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Bromomethane | ND | 0.014 | 0.0022 | mg/Kg dry | 1 | V-34 | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 2-Butanone (MEK) | ND | 0.055 | 0.0078 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| n-Butylbenzene | ND | 0.0027 | 0.00080 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| sec-Butylbenzene | ND | 0.0027 | 0.0013 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| tert-Butylbenzene | ND | 0.0027 | 0.0011 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0014 | 0.00068 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Carbon Disulfide | 0.017 | 0.014 | 0.0096 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Carbon Tetrachloride | ND | 0.0027 | 0.0012 | mg/Kg dry | I | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Chlorobenzene | ND | 0.0027 | 0.00081 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Chlorodibromomethane | ND | 0.0014 | 0.00078 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Chloroethane | ND | 0.027 | 0.0017 | mg/Kg dry | I | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Chloroform | ND | 0.0055 | 0.00080 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Chloromethane | ND | 0.014 | 0.0014 | mg/Kg dry | t | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 2-Chlorotoluene | ND | 0.0027 | 0.00068 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 4-Chlorotoluene | ND | 0.0027 | 0.00057 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| i,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0027 | 0.0012 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0014 | 0.00092 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Dibromomethane | ND | 0.0027 | 0.0010 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0027 | 0.00060 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0027 | 0.00068 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| I,4-Dichlorobenzene | ND | 0.0027 | 0.00073 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.027 | 0.0014 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1-Dichloroethane | ND | 0.0027 | 0.00095 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2-Dichloroethane | ND | 0.0027 | 0.00090 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1-Dichloroethylene | ND | 0.0055 | 0.00097 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0027 | 0.00077 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| rans-1,2-Dichloroethylene | ND | 0.0027 | 0.00092 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2-Dichloropropane | ND | 0.0027 | 0.00077 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 3-Dichloropropane | ND | 0.0014 | 0.00071 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 2,2-Dichloropropane | ND | 0.0027 | 0.0011 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1-Dichloropropene | ND | 0.0027 | 0.0013 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| sis-1,3-Dichloropropene | ND | 0.0014 | 0.00069 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| rans-1,3-Dichloropropene | ND | 0.0014 | 0.00068 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Diethyl Ether | ND | 0.027 | 0.00098 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.0014 | 0.00078 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| ,4-Dioxane | ND | 0.14 | 0.049 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Ethylbenzene | ND | 0.0027 | 0.00074 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| | | | | | | | | | Page 17 | |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: GP 3-5 (4-6ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-02 Sample Matrix: Soil

| | | | Volat | ile Organic Com | pounds by G | C/MS | | | | |
|-----------------------------------|---------|--------|---------|-----------------|-------------|-----------|--------------|------------------|-----------------------|---------|
| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
| Hexachlorobutadiene | ND | 0.0027 | 0.0010 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 2-Hexanone (MBK) | ND | 0.027 | 0.0078 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0027 | 0.00097 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| p-Isopropyitoluene (p-Cymene) | ND | 0.0027 | 0.00077 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0055 | 0.00049 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Methylene Chloride | ND | 0.027 | 0.0020 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.027 | 0.0057 | mg/Kg dry | I | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Naphthalene | ND | 0.0055 | 0.00074 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| n-Propylbenzene | ND | 0.0027 | 0.00065 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Styrene | ND | 0.0027 | 0.00057 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0027 | 0.00077 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0014 | 0.00071 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Tetrachioroethylene | ND | 0.0027 | 0.00091 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Tetrahydrofuran | ND | 0.014 | 0.0046 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Toluene | ND | 0.0027 | 0.00071 | mg/Kg dry | ı | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0027 | 0.00074 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0027 | 0.00066 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1,I-Trichloroethane | ND | 0.0027 | 0.0011 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0027 | 0.00063 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Trichloroethylene | ND | 0.0027 | 0.00090 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.014 | 0.00066 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0027 | 0.0014 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0027 | 0.00091 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0027 | 0.00072 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Vinyl Chloride | ND | 0.014 | 0.00088 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| m+p Xylene | ND | 0.0055 | 0.0018 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| o-Xylene | ND | 0.0027 | 0.00059 | mg/Kg dry | 1 | | SW-846 8260D | 5/13/22 | 5/13/22 10:35 | MFF |
| Surrogates | | % Reco | very | Recovery Limits | | Flag/Qual | | | | |
| 1,2-Dichloroethane-d4 | | 134 | * | 70-130 | | S-17 | | | 5/13/22 10:35 | |
| | | | | | | | | | | |



Project Location: 240 Beaver St., Waltham, MA

Sample Description:

Work Order: 22E0834

Date Received: 5/12/2022

Field Sample #: GP 3-5 (4-6ft)

Sampled: 5/12/2022 12:00

Sample ID: 22E0834-02
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| | | | | | | | | Date | Date/Time | |
|----------|---------|---------|----|-------|----------|-----------|----------|----------|---------------|---------|
| | Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Prepared | Analyzed | Analyst |
| % Solids | | 73.0 | | % Wt | 1 | | SM 2540G | 5/20/22 | 5/25/22 12:36 | ЛC |



Sample Extraction Data

| Lab Number [Field ID] | Batch | | | Date | |
|-------------------------------------------|--------------------------|-------------|------------|----------|--|
| 2E0834-01 [Comp #1 (2-10ft)] | B308891 | | | 05/20/22 | |
| 2E0834-02 [GP 3-5 (4-6ft)] | B308891 | | | 05/20/22 | |
| M21-23 2510B Modified | | | | | |
| Lab Number [Field ID] | Batch | Initial [g] | | Date | |
| 2E0834-01 [Comp #1 (2-10ft)] | B308429 | 1.00 | | 05/14/22 | |
| SW-846 1010A-B | | | | | |
| ab Number [Field ID] | Batch | Initial [g] | Final (mL) | Date | |
| 22E0834-01 [Comp #1 (2-10ft)] | B308571 | 50.0 | 50.0 | 05/17/22 | |
| Prep Method: SW-846 3050B Analytical Met | hod: SW-846 6010D | | | | |
| Lab Number (Field ID) | Batch | Initial [g] | Final [mL] | Date | |
| 22E0834-01 [Comp #1 (2-10ft)] | B308621 | 1.54 | 50.0 | 05/17/22 | |
| ep Method: SW-846 7471 Analytical Metho | od: SW-846 7471B | | | | |
| Lab Number [Field ID] | Batch | Initial [g] | Final (mL) | Date | |
| 22E0834-01 [Comp #1 (2-10ft)] | B309067 | 0.581 | 50.0 | 05/23/22 | |
| Prep Method: SW-846 3546 Analytical Metho | od: SW-846 8081B | | | | |
| ab Number [Field ID] | Batch | Initial [g] | Final (mL) | Date | |
| 2E0834-01 [Comp #1 (2-10ft)] | B308354 | 10.0 | 10.0 | 05/13/22 | |
| Prep Method: SW-846 3546 Analytical Metho | od: SW-846 8082A | | | | |
| ab Number [Field ID] | Batch | Initial [g] | Final (mL) | Date | |
| 2E0834-01 [Comp #1 (2-10ft)] | B308353 | 10.0 | 10.0 | 05/13/22 | |
| rep Method: SW-846 3546 Analytical Metho | od: SW-846 8100 Modified | | | | |
| ab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date | |
| 2E0834-01 [Comp #1 (2-10ft)] | B308525 | 30.0 | 1.00 | 05/16/22 | |
| rep Method: SW-846 8151 Analytical Metho | od: SW-846 8151A | | | | |
| • | | | | | |
| ab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date | |



Sample Extraction Data

Prep Method: SW-846 5035 Analytical Method: SW-846 8260D

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date | |
|-----------------------------|---------|-------------|------------|----------|---------------------------------------|
| 22E0834-02 [GP 3-5 (4-6ft)] | B308386 | 5.00 | 10.0 | 05/13/22 | · · · · · · · · · · · · · · · · · · · |

Prep Method: SW-846 3546

Analytical Method: SW-846 8270E

| Lab Number [Field ID] | Batch | Initial (g) | Final [mL] | Date |
|-------------------------------|---------|-------------|------------|----------|
| 22E0834-01 [Comp #1 (2-10ft)] | B308526 | 30.1 | 1.00 | 05/16/22 |

SW-846 9014

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------|---------|-------------|------------|----------|
| 22E0834-01 [Comp #1 (2-10ft)] | B308564 | 25.7 | 250 | 05/17/22 |

SW-846 9030A

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------|---------|-------------|------------|----------|
| 22E0834-01 [Comp #1 (2-10ft)] | B308563 | 25.7 | 250 | 05/17/22 |

SW-846 9045C

| .ab Number [Field ID] | Batch | Initial [g] | Date |
|-------------------------------|---------|-------------|----------|
| 22E0834-01 [Comp #1 (2-10ft)] | B308341 | 20.0 | 05/12/22 |



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|--------------------|-----------|----------------|------------------|--------|----------------|-----|--------------|-------|
| Batch B308386 - SW-846 5035 | | | | | | | | | | |
| Blank (B308386-BLK1) | | | 1 | Prepared & | Analyzed: 05 | /13/22 | | | | |
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| ert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Benzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromochloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| romodichloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| romoform | ND | 0.0020 | mg/Kg wet | | | | | | | |
| romomethane | ND | 0.010 | mg/Kg wet | | | | | | | V-34 |
| -Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | |
| -Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.010 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | |
| hioroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| -Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | |
| 1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| s-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| s-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| ans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| iethyl Ether | ND | 0.020 | mg/Kg wet | | | | | | | |
| iisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| hylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| exachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| opropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| ethyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| ethylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| aphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | |



| Апаlyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|----------------------------------------------------------|------------------|--------------------|------------------------|------------------|------------------|------------|-----------------------------------------|-----|--------------|-------|---|
| Batch B308386 - SW-846 5035 | | | | | | | | | | | _ |
| Blank (B308386-BLK1) | | | | Prepared & A | Analyzed: 05/ | 13/22 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Trichlere Guaranthane (France 11) | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Trichlorofluoromethane (Freon 11) 1,2,3-Trichloropropane | ND | 0.010 0.0020 | mg/Kg wet | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg wet mg/Kg wet | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| Vinyl Chloride | ND ND | 0.010 | mg/Kg wet | | | | | | | | |
| n+p Xylene | ND | 0.0040 | mg/Kg wet | | | | | | | | |
| p-Xylene | ND | 0.0020 | mg/Kg wet | | | | | | | | |
| 'urrogate: 1,2-Dichloroethane-d4 | 0.0549 | | mg/Kg wet | 0.0500 | | 110 | 70-130 | | | | |
| rrogate: Toluene-d8 | 0.0488 | | mg/Kg wet | 0.0500 | | 97.6 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0486 | | mg/Kg wet | 0.0500 | | 97.3 | 70-130 | | | | |
| LCS (B308386-BS1) | | | | Prepared & A | Analyzed: 05/ | 13/22 | | | | | |
| Acetone | 0.228 | 0.10 | mg/Kg wet | 0.200 | | 114 | 40-160 | | | | |
| ert-Amyl Methyl Ether (TAME) | 0.0225 | 0.0010 | mg/Kg wet | 0.0200 | | 113 | 70-130 | | | | |
| Benzene | 0.0202 | 0.0020 | mg/Kg wet | 0,0200 | | 101 | 70-130 | | | | |
| Bromobenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| Bromochloromethane | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| Bromodichloromethane | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| Bromoform | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| Bromomethane | 0.0225 | 0.010 | mg/Kg wet | 0.0200 | | 113 | 40-160 | | | V-34 | |
| 2-Butanone (MEK) | 0.247 | 0.040 | mg/Kg wet | 0.200 | | 124 | 40-160 | | | V-36 | |
| a-Butylbenzene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| ec-Butylbenzene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| ert-Butylbenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.3 | 70-130 | | | | |
| ert-Butyl Ethyl Ether (TBEE) | 0.0189 | 0.0010 | mg/Kg wet | 0.0200 | | 94.3 | 70-130 | | | | |
| Carbon Disulfide | 0.218 | 0.010 | mg/Kg wet | 0.200 | | 109 | 70-130 | | | | |
| Carbon Tetrachloride | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| Chlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | | | | |
| Chlorodibromomethane | 0.0211 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| Chloroethane | 0.0212 | 0.020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | | |
| Chloroform Chloromethane | 0.0206 | 0.0040 0.010 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| nioromemane -Chlorotoluene | 0.0211 | 0.010 | mg/Kg wet mg/Kg wet | 0.0200 | | 106 | 40-160 70-130 | | | | |
| -Chlorotoluene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 0.0200 | | 104 104 | 70-130 70-130 | | | | |
| ,2-Dibromo-3-chloropropane (DBCP) | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| ,2-Dibromoethane (EDB) | 0.0216 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| bromomethane | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | | |
| ,2-Dichlorobenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.9 | 70-130 | | | | |
| 3-Dichlorobenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | | | | |
| | 0.0190 | | | 0.0200 | | | | | | | |



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|------------------------------------|--------|--------------------|-----------|----------------|------------------|-------|----------------|-----|--------------|-------|---|
| Batch B308386 - SW-846 5035 | | | | | | | | | | | |
| LCS (B308386-BS1) | | | | Prepared & A | Analyzed: 05/ | 13/22 | | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0176 | 0.020 | mg/Kg wet | 0.0200 | | 88.1 | 40-160 | | | J | |
| 1,1-Dichloroethane | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| 1,2-Dichloroethane | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| 1,1-Dichloroethylene | 0.0207 | 0.0040 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.6 | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| 1,2-Dichloropropane | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | | |
| 1,3-Dichloropropane | 0.0211 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| 2,2-Dichloropropane | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| 1,1-Dichloropropene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | | |
| cis-1,3-Dichloropropene | 0.0210 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| trans-1,3-Dichloropropene | 0.0185 | 0.0010 | mg/Kg wet | 0.0200 | | 92.6 | 70-130 | | | | |
| Diethyl Ether | 0.0199 | 0.020 | mg/Kg wet | 0.0200 | | 99.5 | 70-130 | | | J | |
| Diisopropyl Ether (DIPE) | 0.0201 | 0.0010 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| 1,4-Dioxane | 0.200 | 0.10 | mg/Kg wet | 0.200 | | 100 | 40-160 | | | | , |
| Ethylbenzene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| Hexachlorobutadiene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.5 | 70-130 | | | | |
| 2-Hexanone (MBK) | 0.242 | 0.020 | mg/Kg wet | 0.200 | | 121 | 40-160 | | | V-36 | 1 |
| Isopropylbenzene (Cumene) | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| sthyl tert-Butyl Ether (MTBE) | 0.0199 | 0.0040 | mg/Kg wet | 0.0200 | | 99.4 | 70-130 | | | | |
| Aethylene Chloride | 0.0200 | 0.020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.235 | 0.020 | mg/Kg wet | 0.200 | | 118 | 40-160 | | | | , |
| Naphthalene | 0.0206 | 0.0040 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| n-Propylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| Styrene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.0210 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | | |
| Tetrachloroethylene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.1 | 70-130 | | | | |
| Tetrahydrofuran | 0.0205 | 0.010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| Toluene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.5 | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 90.8 | 70-130 | | | | |
| 1,1,1-Trichloroethane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | | |
| 1,1,2-Trichloroethane | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| richloroethylene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 0.0218 | 0.010 | mg/Kg wet | 0.0200 | | 109 | 70-130 | | | | |
| ,2,3-Trichloropropane | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | | |
| ,2,4-Trimethylbenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| ,3,5-Trimethylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | | |
| /inyl Chloride | 0.0214 | 0.010 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | | |
| n+p Xylene | 0.0420 | 0.0040 | mg/Kg wet | 0.0400 | | 105 | 70-130 | | | | |
| -Xylene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | | |
| urrogate: 1,2-Dichloroethane-d4 | 0.0505 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | | |
| urrogate: Toluene-d8 | 0.0506 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0488 | | mg/Kg wet | 0.0500 | | 97.6 | 70-130 | | | | |



Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---------------------------------------|------------------|--------------------|------------------------|------------------|------------------|------------|------------------|---------------|--------------|-------|---|
| Batch B308386 - SW-846 5035 | | | | | | | | | | | |
| LCS Dup (B308386-BSD1) | | | | Prepared & | Analyzed: 05 | /13/22 | | | | | |
| Acetone | 0.229 | 0.10 | mg/Kg wet | 0.200 | | 115 | 40-160 | 0.534 | 20 | | |
| tert-Amyl Methyl Ether (TAME) | 0.0227 | 0.0010 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 0.972 | 20 | | |
| Benzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 0.794 | 20 | | |
| Bromobenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.964 | 20 | | |
| Bromochloromethane | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.00 | 20 | | |
| Bromodichloromethane | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 1.34 | 20 | | |
| Bromoform | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 1.89 | 20 | | |
| Bromomethane | 0.0223 | 0.010 | mg/Kg wet | 0.0200 | | 112 | 40-160 | 0.891 | 20 | V-34 | |
| 2-Butanone (MEK) | 0.254 | 0.040 | mg/Kg wet | 0.200 | | 127 | 40-160 | 2.83 | 20 | V-36 | • |
| n-Butylbenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.571 | 20 | | |
| sec-Butylbenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 0.495 | 20 | | |
| tert-Butylbenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 1.40 | 20 | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0185 | 0.0010 | mg/Kg wet | 0.0200 | | 92.6 | 70-130 | 1.82 | 20 | | |
| Carbon Disulfide Carbon Tetrachioride | 0.214 | 0.010 | mg/Kg wet | 0.200 | | 107 | 70-130 | 2.06 | 20 | | |
| Chlorobenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 0.497 | 20 | | |
| Chlorodibromomethane | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.6 | 70-130 | 0.815 | 20 | | |
| Chloroethane | 0.0210 | 0.0010 0.020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.0950 | 20 | | |
| Chloroform | 0.0210 | 0.020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.853 | 20 | | |
| Chloromethane | 0.0205 | 0.0040 | mg/Kg wet mg/Kg wet | 0.0200 | | 102 104 | 70-130 | 0.487 | 20 | | |
| Chlorotoluene | 0.0208 0.0209 | 0.0020 | mg/Kg wet | 0.0200 0.0200 | | 104 | 40-160 70-130 | 1.53 0.481 | 20 20 | | |
| 4-Chlorotoluene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.0966 | 20 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 1.10 | 20 | | |
| 1,2-Dibromoethane (EDB) | 0.0218 | 0.0010 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.288 | 20 | | |
| Dibromomethane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 1.60 | 20 | | |
| 1,2-Dichlorobenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.8 | 70-130 | 0.101 | 20 | | |
| 1,3-Dichlorobenzene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.0 | 70-130 | 0.821 | 20 | | |
| 1,4-Dichlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.4 | 70-130 | 0.104 | 20 | | |
| Dichlorodifluoromethane (Freon 12) | 0.0174 | 0.020 | mg/Kg wet | 0.0200 | | 87.2 | 40-160 | 1.03 | 20 | J | 1 |
| 1,1-Dichloroethane | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.0956 | 20 | • | |
| 1,2-Dichloroethane | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 0.494 | 20 | | |
| 1,1-Dichloroethylene | 0.0204 | 0.0040 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 1.07 | 20 | | |
| cis-1,2-Dichloroethylene | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.4 | 70-130 | 1.21 | 20 | | |
| trans-1,2-Dichloroethylene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 3.48 | 20 | | |
| 1,2-Dichloropropane | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 1.48 | 20 | | |
| 1,3-Dichloropropane | 0.0213 | 0.0010 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 1.32 | 20 | | |
| 2,2-Dichloropropane | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.0 | 70-130 | 4.24 | 20 | | |
| , I-Dichloropropene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.1 | 70-130 | 1.30 | 20 | | |
| sis-1,3-Dichloropropene | 0.0211 | 0.0010 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 0.380 | 20 | | |
| rans-1,3-Dichloropropene | 0.0186 | 0.0010 | mg/Kg wet | 0.0200 | | 93.0 | 70-130 | 0.431 | 20 | | |
| Diethyl Ether | 0.0200 | 0.020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 0.701 | 20 | | |
| Diisopropyl Ether (DIPE) | 0.0197 | 0.0010 | mg/Kg wet | 0.0200 | | 98.7 | 70-130 | 1.91 | 20 | | |
| ,4-Dioxane | 0.236 | 0.10 | mg/Kg wet | 0.200 | | 118 | 40-160 | 16.2 | 20 | V-16 | • |
| thylbenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 0.587 | 20 | | |
| 1exachlorobutadiene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.3 | 70-130 | 2.36 | 20 | | |
| -Hexanone (MBK) | 0.247 | 0.020 | mg/Kg wet | 0.200 | | 123 | 40-160 | 2.04 | 20 | V-36 | 1 |
| sopropylbenzene (Cumene) | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 0.0992 | 20 | | |
| -Isopropyltoluene (p-Cymene) | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 1.68 | 20 | | |
| ethyl tert-Butyl Ether (MTBE) | 0.0198 | 0.0040 | mg/Kg wet | 0.0200 | | 99.2 | 70-130 | 0.201 | 20 | | |
| viethylene Chloride | 0.0199 | 0.020 | mg/Kg wet | 0.0200 | | 99.5 | 70-130 | 0.501 | 20 | J | |
| -Methyl-2-pentanone (MIBK) | 0.240 | 0.020 | mg/Kg wet | 0.200 | | 120 | 40-160 | 2.20 | 20 | | 1 |
| Naphthalene | 0.0205 | 0.0040 | mg/Kg wet | D.0200 | | 102 | 70-130 | 0.584 | 20 | | |

Page 25 of 64



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|--------------------|-----------|----------------|------------------|--------|----------------|-------|--------------|-------|
| Batch B308386 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B308386-BSD1) | | | | Prepared & A | Analyzed: 05/ | /13/22 | | | | |
| n-Propylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.290 | 20 | |
| Styrene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.381 | 20 | |
| 1,1,1,2-Tetrachloroethane | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.970 | 20 | |
| 1,1,2,2-Tetrachloroethane | 0.0216 | 0.0010 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 3.19 | 20 | |
| Tetrachloroethylene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.7 | 70-130 | 1.42 | 20 | |
| Tetrahydrofuran | 0.0206 | 0.010 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 0.682 | 20 | |
| l'oluene | 0.0226 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | 70-130 | 10.1 | 20 | |
| 1,2,3-Trichlorobenzene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.0 | 70-130 | 0.536 | 20 | |
| 1,2,4-Trichlorobenzene | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 89.9 | 70-130 | 0.996 | 20 | |
| ,1,1-Trichloroethane | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 1.50 | 20 | |
| 1,1,2-Trichloroethane | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 1.66 | 20 | |
| Trichloroethylene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.6 | 70-130 | 0.800 | 20 | |
| Trichlorofluoromethane (Freon 11) | 0.0219 | 0.010 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 0.550 | 20 | |
| ,2,3-Trichloropropane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 1.87 | 20 | |
| ,2,4-Trimethylbenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 1.86 | 20 | |
| ,3,5-Trimethylbenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.675 | 20 | |
| Vinyl Chloride | 0.0212 | 0.010 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 0.563 | 20 | |
| n+p Xylene | 0.0420 | 0.0040 | mg/Kg wet | 0.0400 | | 105 | 70-130 | 0.143 | 20 | |
| o-Xylene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 0.195 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0495 | | mg/Kg wet | 0.0500 | | 99.0 | 70-130 | | | |
| rrogate: Toluene-d8 | 0.0503 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |
| urrogate: 4-Bromofluorobenzene | 0.0489 | | mg/Kg wet | 0.0500 | | 97.9 | 70-130 | | | |



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------------------|----------|--------------------|------------------------|----------------|------------------|--------------|----------------|-----|--------------|-------|
| Batch B308526 - SW-846 3546 | | | | | | | | | | |
| Blauk (B308526-BLK1) | | | | Prepared: 05 | /16/22 Analy | zed: 05/18/2 | 2 | | | |
| Biphenyl | ND | 0.67 | mg/Kg wet | | | | | | | |
| Acenaphthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Acenaphthylene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Acetophenone | ND | 0.34 | mg/Kg wet | | | | | | | |
| Aniline | ND | 0.34 | mg/Kg wet | | | | | | | V-05 |
| Anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(a)anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(a)pyrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Senzo(g,h,i)perylene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(k)fluoranthene Bis(2-chloroethoxy)methane | ND | 0.17 | mg/Kg wet | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 0.34 0.34 | mg/Kg wet mg/Kg wet | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 0.34 | mg/Kg wet mg/Kg wet | | | | | | | 17.00 |
| Bis(2-Ethylhexyl)phthalate | ND | 0.34 | mg/Kg wet | | | | | | | V-05 |
| -Bromophenylphenylether | ND | 0.34 | mg/Kg wet | | | | | | | |
| Butylbenzylphthalate | ND ND | 0.34 | mg/Kg wet | | | | | | | |
| -Chloroaniline | ND | 0.66 | mg/Kg wet | | | | | | | V-34 |
| -Chloronaphthalene | ND | 0.34 | mg/Kg wet | | | | | | | V-3** |
| -Chlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| rysene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Dibenzofuran | ND | 0.34 | mg/Kg wet | | | | | | | |
| Pi-n-butylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| ,2-Dichlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| ,3-Dichlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| ,4-Dichlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| ,3-Dichlorobenzidine | ND | 0.17 | mg/Kg wet | | | | | | | |
| 4-Dichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| liethylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Dimethylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| imethylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Dinitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | R-05 |
| 4-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 6-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | |
| i-n-octylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Diphenylhydrazine/Azobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| uoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| uorene | ND | 0.17 | mg/Kg wet | | | | | | | |
| exachlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| exachlorobutadiene | ND | 0.34 | mg/Kg wet | | | | | | | |
| exachloroethane | ND | 0.34 | mg/Kg wet | | | | | | | |
| deno(1,2,3-cd)pyrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| ophorone | ND | 0.34 | mg/Kg wet | | | | | | | |
| Methylnaphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| aphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| trobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| Nitrophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Nitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | |



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------|--------|--------------------|-----------|----------------|------------------|---------------|----------------|-----|--------------|---------|
| Batch B308526 - SW-846 3546 | | | | | | | | | | |
| llank (B308526-BLK1) | | | 1 | Prepared: 05 | /16/22 Analy | /zed: 05/18/2 | 2 | | | |
| henanthrene | ND | 0.17 | mg/Kg wet | | | | | , | | |
| henol | ND | 0.34 | mg/Kg wet | | | | | | | |
| yrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| yridine | ND | 0.34 | mg/Kg wet | | | | | | | |
| ,2,4-Trichlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4,5-Trichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4,6-Trichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| urrogate: 2-Fluorophenol | 3.57 | | mg/Kg wet | 6.67 | | 53.5 | 30-130 | | | |
| urrogate: Phenol-d6 | 3.50 | | mg/Kg wet | 6.67 | | 52.5 | 30-130 | | | |
| urrogate: Nitrobenzene-d5 | 1.76 | | mg/Kg wet | 3.33 | | 52.8 | 30-130 | | | |
| errogate: 2-Fluorobiphenyl | 2.31 | | mg/Kg wet | 3.33 | | 69.2 | 30-130 | | | |
| arrogate: 2,4,6-Tribromophenol | 4.96 | | mg/Kg wet | 6.67 | | 74.4 | 30-130 | | | |
| arrogate: p-Terphenyl-d14 | 2.09 | | mg/Kg wet | 3.33 | | 62.8 | 30-130 | | | |
| | | | | | | | | | | |
| CS (B308526-BS1) | | | | | /16/22 Analy | | | | | |
| phenyl | 1.15 | 0.67 | mg/Kg wet | 1.67 | | 69.3 | 40-140 | | | |
| cenaphthene | 1.02 | 0.17 | mg/Kg wet | 1.67 | | 61.1 | 40-140 | | | |
| cenaphthylene | 1.06 | 0.17 | mg/Kg wet | 1.67 | | 63.8 | 40-140 | | | |
| cetophenone | 0.935 | 0.34 | mg/Kg wet | 1.67 | | 56.1 | 40-140 | | | |
| niline | 0.822 | 0.34 | mg/Kg wet | 1.67 | | 49.3 | 40-140 | | | V-05 |
| nthracene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 69.1 | 40-140 | | | |
| nzo(a)anthracene | 1.09 | 0.17 | mg/Kg wet | 1.67 | | 65.5 | 40-140 | | | |
| enzo(a)pyrene | 1.13 | 0.17 | mg/Kg wet | 1.67 | | 68.1 | 40-140 | | | |
| enzo(b)fluoranthene | 1.16 | 0.17 | mg/Kg wet | 1.67 | | 69.3 | 40-140 | | | |
| enzo(g,h,i)perylene | 1.11 | 0.17 | mg/Kg wet | 1.67 | | 66.9 | 40-140 | | | |
| enzo(k)fluoranthene | 1.26 | 0.17 | mg/Kg wet | 1.67 | | 75.6 | 40-140 | | | |
| s(2-chloroethoxy)methane | 0.958 | 0.34 | mg/Kg wet | 1.67 | | 57.5 | 40-140 | | | |
| s(2-chloroethyl)ether | 0.727 | 0.34 | mg/Kg wet | 1.67 | | 43.6 | 40-140 | | | |
| s(2-chloroisopropyl)ether | 0.713 | 0.34 | mg/Kg wet | 1.67 | | 42.8 | 40-140 | | | V-05 |
| s(2-Ethylhexyl)phthalate | 0.998 | 0.34 | mg/Kg wet | 1.67 | | 59.9 | 40-140 | | | |
| Bromophenylphenylether | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.5 | 40-140 | | | |
| ıtylbenzylphthalate | 0.946 | 0.34 | mg/Kg wet | 1.67 | | 56.8 | 40-140 | | | |
| Chloroaniline | 0.941 | 0.66 | mg/Kg wet | 1.67 | | 56.5 | 15-140 | | | V-34 |
| Chloronaphthalene | 0.955 | 0.34 | mg/Kg wet | 1.67 | | 57.3 | 40-140 | | | |
| Chlorophenol | 0.943 | 0.34 | mg/Kg wet | 1.67 | | 56.6 | 30-130 | | | |
| nrysene | 1.12 | 0.17 | mg/Kg wet | 1.67 | | 67.2 | 40-140 | | | |
| benz(a,h)anthracene | 1.14 | 0.17 | mg/Kg wet | 1.67 | | 68.5 | 40-140 | | | |
| benzofuran | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.2 | 40-140 | | | |
| -n-butylphthalate | 1.00 | 0.34 | mg/Kg wet | 1.67 | | 60.0 | 40-140 | | | |
| 2-Dichlorobenzene | 0.935 | 0.34 | mg/Kg wet | 1.67 | | 56.1 | 40-140 | | | |
| 3-Dichlorobenzene | 0.901 | 0.34 | mg/Kg wet | 1.67 | | 54.1 | 40-140 | | | |
| l-Dichlorobenzene | 0.926 | 0.34 | mg/Kg wet | 1.67 | | 55.6 | 40-140 | | | |
| -Dichlorobenzidine | 0.961 | 0.17 | mg/Kg wet | 1.67 | | 57.7 | 40-140 | | | |
| -Dichlorophenol | 1.07 | 0.34 | mg/Kg wet | 1.67 | | 64.4 | 30-130 | | | |
| ethylphthalate | 0.965 | 0.34 | mg/Kg wet | 1.67 | | 57.9 | 40-140 | | | |
| -Dimethylphenol | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 61.4 | 30-130 | | | |
| methylphthalate | 1.06 | 0.34 | mg/Kg wet | 1.67 | | 63.7 | 40-140 | | | |
| -Dinitrophenol | 0.572 | 0.66 | mg/Kg wet | 1.67 | | 34.3 | 15-140 | | | R-05, J |
| -Dinitrotoluene | 1.16 | 0.34 | mg/Kg wet | 1.67 | | 69.4 | 40-140 | | | |
| -Dinitrotoluene | 1.20 | 0.34 | mg/Kg wet | 1.67 | | 71.9 | 40-140 | | | |
| -n-octylphthalate | 0.958 | 0.34 | mg/Kg wet | 1.67 | | 57.5 | 40-140 | | | |
| | 0.550 | | | | | | | | | |



| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------|--------|--------------------|-----------|----------------|------------------|---------------|----------------|-------|--------------|-------|
| Batch B308526 - SW-846 3546 | | | , | | | | | | | |
| LCS (B308526-BS1) | | | | Prepared: 05 | i/16/22 Analy | yzed: 05/18/2 | .2 | | | |
| Fluoranthene | 1.11 | 0.17 | mg/Kg wet | 1.67 | | 66.4 | 40-140 | | | |
| Fluorene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 69.1 | 40-140 | | | |
| Hexachlorobenzene | 1.24 | 0.34 | mg/Kg wet | 1.67 | | 74.I | 40-140 | | | |
| Hexachlorobutadiene | 1.08 | 0.34 | mg/Kg wet | 1.67 | | 64.9 | 40-140 | | | |
| -lexachloroethane | 0.828 | 0.34 | mg/Kg wet | 1.67 | | 49.7 | 40-140 | | | |
| ndeno(1,2,3-cd)pyrene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 68.8 | 40-140 | | | |
| sophorone | 0.962 | 0.34 | mg/Kg wet | 1.67 | | 57.7 | 40-140 | | | |
| -Methylnaphthalene | 1.17 | 0.17 | mg/Kg wet | 1.67 | | 70.1 | 40-140 | | | |
| -Methylphenol | 0.972 | 0.34 | mg/Kg wet | 1.67 | | 58.3 | 30-130 | | | |
| /4-Methylphenol | 0.990 | 0.34 | mg/Kg wet | 1.67 | | 59.4 | 30-130 | | | |
| Taphthalene | 1.02 | 0.17 | mg/Kg wet | 1.67 | | 61.3 | 40-140 | | | |
| litrobenzene | 0.872 | 0.34 | mg/Kg wet | 1.67 | | 52.3 | 40-140 | | | |
| -Nitrophenol | 0.978 | 0.34 | mg/Kg wet | 1.67 | | 58.7 | 30-130 | | | |
| -Nitrophenol | 0.907 | 0.66 | mg/Kg wet | 1.67 | | 54.4 | 15-140 | | | |
| entachlorophenol | 0.917 | 0.34 | mg/Kg wet | 1.67 | | 55.0 | 30-130 | | | |
| henanthrene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 68.9 | 40-140 | | | |
| henol | 0.918 | 0.34 | mg/Kg wet | 1.67 | | 55.1 | 15-140 | | | |
| yrene | 1.07 | 0.17 | mg/Kg wet | 1.67 | | 64.1 | 40-140 | | | |
| yridine | 0.514 | 0.34 | mg/Kg wet | 1.67 | | 30.9 | 30-140 | | | |
| ,2,4-Trichlorobenzene | 1.05 | 0.34 | mg/Kg wet | 1,67 | | 63.I | 40-140 | | | |
| 1,5-Trichlorophenol | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.1 | 30-130 | | | |
| 4,6-Trichlorophenol | 1.13 | 0,34 | mg/Kg wet | 1.67 | | 67.7 | 30-130 | | | |
| urrogate: 2-Fluorophenol | 4.20 | | mg/Kg wet | 6.67 | | 62.9 | 30-130 | | | |
| urrogate: Phenol-d6 | 4.14 | | mg/Kg wet | 6.67 | | 62,1 | 30-130 | | | |
| urrogate: Nitrobenzene-d5 | 1.86 | | mg/Kg wet | 3.33 | | 55.7 | 30-130 | | | |
| urrogate: 2-Fluorobiphenyl | 2.49 | | mg/Kg wet | 3.33 | | 74.8 | 30-130 | | | |
| urrogate: 2,4,6-Tribromophenol | 5.52 | | mg/Kg wet | 6.67 | | 82.9 | 30-130 | | | |
| urrogate: p-Terphenyl-d14 | 2.34 | | mg/Kg wet | 3.33 | | 70.2 | 30-130 | | | |
| CS Dup (B308526-BSD1) | | | 1 | Prepared: 05 | i/16/22 Analy | yzed: 05/18/2 | 22 | | | |
| iphenyl | 1.21 | 0.67 | mg/Kg wet | 1.67 | | 72.5 | 40-140 | 4.54 | 20 | |
| cenaphthene | 1.05 | 0.17 | mg/Kg wet | 1.67 | | 63.3 | 40-140 | 3.57 | 30 | |
| cenaphthylene | 1.09 | 0.17 | mg/Kg wet | 1.67 | | 65,2 | 40-140 | 2.26 | 30 | |
| cetophenone | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 61.0 | 40-140 | 8.33 | 30 | |
| niline | 0.745 | 0.34 | mg/Kg wet | 1.67 | | 44.7 | 40-140 | 9.83 | 30 | V-05 |
| nthracene | 1.17 | 0.17 | mg/Kg wet | 1.67 | | 70.3 | 40-140 | 1.78 | 30 | |
| enzo(a)anthracene | 1.11 | 0.17 | mg/Kg wet | 1.67 | | 66.5 | 40-140 | 1.52 | 30 | |
| enzo(a)pyrene | 1.13 | 0.17 | mg/Kg wet | 1.67 | | 67.7 | 40-140 | 0.560 | 30 | |
| enzo(b)fluoranthene | 1.16 | 0.17 | mg/Kg wet | 1.67 | | 69.7 | 40-140 | 0.604 | 30 | |
| enzo(g,h,i)perylene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 69.2 | 40-140 | 3.35 | 30 | |
| enzo(k)fluoranthene | 1.25 | 0.17 | mg/Kg wet | 1.67 | | 74.8 | 40-140 | 1.06 | 30 | |
| s(2-chloroethoxy)methane | 1.00 | 0.34 | mg/Kg wet | 1.67 | | 60.3 | 40-140 | 4.72 | 30 | |
| s(2-chloroethyl)ether | 0.799 | 0.34 | mg/Kg wet | 1.67 | | 47.9 | 40-140 | 9.44 | 30 | |
| s(2-chloroisopropyl)ether | 0.829 | 0.34 | mg/Kg wet | 1.67 | | 49.7 | 40-140 | 15.0 | 30 | V-05 |
| s(2-Ethylhexyl)phthalate | 1,05 | 0.34 | mg/Kg wet | 1.67 | | 63.3 | 40-140 | 5.55 | 30 | |
| Bromophenylphenylether | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.5 | 40-140 | 1.52 | 30 | |
| ıtylbenzylphthalate | 0.937 | 0.34 | mg/Kg wet | 1.67 | | 56.2 | 40-140 | 1.03 | 30 | |
| Chloroaniline | 0.869 | 0.66 | mg/Kg wet | 1.67 | | 52.1 | 15-140 | 7.96 | 30 | V-34 |
| Chloronaphthalene | 1.01 | 0.34 | mg/Kg wet | 1.67 | | 60.8 | 40-140 | 5.86 | 30 | 7-3- |
| Chlorophenol | | 0.34 | mg/Kg wet | 1.67 | | 59.7 | 30-130 | 5.37 | 30 | |
| hrysene | 0.995 | 0.17 | mg/Kg wet | 1.67 | | 68.8 | 40-140 | 2.32 | 30 | |
| m Junio | 1.15 | 0.17 | THE THE | 1.07 | | 00.0 | 70-170 | e34 | 20 | |



QUALITY CONTROL

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---------------------------------|--------|--------------------|-----------|----------------|------------------|---------------|----------------|-------|--------------|---------|--|
| Batch B308526 - SW-846 3546 | | | | | | | | | | | |
| LCS Dup (B308526-BSD1) | | | | Prepared: 05 | /16/22 Analy | yzed: 05/18/2 | 2 | | | | |
| Dibenzofuran | 1.21 | 0.34 | mg/Kg wet | 1.67 | | 72.8 | 40-140 | 2.25 | 30 | | |
| Di-n-butylphthalate | 1.06 | 0.34 | mg/Kg wet | 1.67 | | 63.3 | 40-140 | 5.42 | 30 | | |
| 1,2-Dichlorobenzene | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 61.0 | 40-140 | 8.40 | 30 | | |
| 1,3-Dichlorobenzene | 1.01 | 0.34 | mg/Kg wet | 1.67 | | 60.4 | 40-140 | 11.1 | 30 | | |
| 1,4-Dichlorobenzene | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 60.9 | 40-140 | 9.17 | 30 | | |
| 3,3-Dichlorobenzidine | 0.867 | 0.17 | mg/Kg wet | 1.67 | | 52.0 | 40-140 | 10.3 | 30 | | |
| 2,4-Dichlorophenol | 1.09 | 0.34 | mg/Kg wet | 1.67 | | 65.4 | 30-130 | 1.54 | 30 | | |
| Diethylphthalate | 1.01 | 0.34 | mg/Kg wet | 1.67 | | 60.5 | 40-140 | 4.46 | 30 | | |
| 2,4-Dimethylphenol | 1.06 | 0.34 | mg/Kg wet | 1.67 | | 63.5 | 30-130 | 3.36 | 30 | | |
| Dimethylphthalate | 1.05 | 0.34 | mg/Kg wet | 1.67 | | 63.1 | 40-140 | 0.977 | 30 | | |
| 2,4-Dinitrophenol | 0.367 | 0.66 | mg/Kg wet | 1.67 | | 22.0 | 15-140 | 43.6 | * 30 | R-05, J | |
| 2,4-Dinitrotoluene | 1,17 | 0.34 | mg/Kg wet | 1.67 | | 70.4 | 40-140 | 1.37 | 30 | | |
| 2,6-Dinitrotoluene | 1.20 | 0.34 | mg/Kg wet | 1.67 | | 72.0 | 40-140 | 0.167 | 30 | | |
| Di-n-octylphthalate | 0.985 | 0.34 | mg/Kg wet | 1.67 | | 59.1 | 40-140 | 2.71 | 30 | | |
| ,2-Diphenylhydrazine/Azobenzene | 1.00 | 0.34 | mg/Kg wet | 1.67 | | 60.2 | 40-140 | 4.03 | 30 | | |
| Fluoranthene | 1.16 | 0.17 | mg/Kg wet | 1.67 | | 69.6 | 40-140 | 4.73 | 30 | | |
| Fluorene | 1.18 | 0.17 | mg/Kg wet | 1.67 | | 70.7 | 40-140 | 2.23 | 30 | | |
| Hexachlorobenzene | 1.24 | 0.34 | mg/Kg wet | 1.67 | | 74.6 | 40-140 | 0.699 | 30 | | |
| Hexachlorobutadiene | 1.15 | 0.34 | mg/Kg wet | 1.67 | | 68.9 | 40-140 | 6.01 | 30 | | |
| Hexachloroethane | 0.958 | 0.34 | mg/Kg wet | 1.67 | | 57.5 | 40-140 | 14.6 | 30 | | |
| deno(1,2,3-cd)pyrene | 1.11 | 0.17 | mg/Kg wet | 1.67 | | 66.5 | 40-140 | 3.40 | 30 | | |
| sophorone | 1.08 | 0.34 | mg/Kg wet | 1.67 | | 64.5 | 40-140 | 11.2 | 30 | | |
| 2-Methylnaphthalene | 1.24 | 0.17 | mg/Kg wet | 1.67 | | 74.1 | 40-140 | 5.49 | 30 | | |
| 2-Methylphenol | 1.03 | 0.34 | mg/Kg wet | 1.67 | | 61.9 | 30-130 | 5.89 | 30 | | |
| 3/4-Methylphenol | 1.01 | 0.34 | mg/Kg wet | 1.67 | | 60.9 | 30-130 | 2.46 | 30 | | |
| Naphthalene | 1.09 | 0.17 | mg/Kg wet | 1.67 | | 65.5 | 40-140 | 6.56 | 30 | | |
| Nitrobenzene | 0.969 | 0.34 | mg/Kg wet | 1.67 | | 58.1 | 40-140 | 10.5 | 30 | | |
| -Nitrophenol | 1.07 | 0.34 | mg/Kg wet | 1.67 | | 63.9 | 30-130 | 8.61 | 30 | | |
| -Nitrophenol | 0.904 | 0.66 | mg/Kg wet | 1.67 | | 54.3 | 15-140 | 0.258 | 30 | | |
| Pentachlorophenol | 0.924 | 0.34 | mg/Kg wet | 1.67 | | 55.4 | 30-130 | 0.760 | 30 | | |
| henanthrene ' | 1.17 | 0.17 | mg/Kg wet | 1.67 | | 70.2 | 40-140 | 1.75 | 30 | | |
| Phenol | 0.952 | 0.34 | mg/Kg wet | 1.67 | | 57.1 | 15-140 | 3.64 | 30 | | |
| yrene | 1.11 | 0.17 | mg/Kg wet | 1.67 | | 66.7 | 40-140 | 4.07 | 30 | | |
| yridine | 0.667 | 0.34 | mg/Kg wet | 1.67 | | 40.0 | 30-140 | 25.8 | 30 | | |
| ,2,4-Trichlorobenzene | 1.14 | 0.34 | mg/Kg wet | 1.67 | | 68.6 | 40-140 | 8.29 | 30 | | |
| ,4,5-Trichlorophenol | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.5 | 30-130 | 0.455 | 30 | | |
| ,4,6-Trichlorophenol | 1.14 | 0.34 | mg/Kg wet | 1.67 | | 68.6 | 30-130 | 1.35 | 30 | | |
| urrogate: 2-Fluorophenol | 4.36 | | mg/Kg wet | 6.67 | | 65.4 | 30-130 | | | | |
| urrogate: Phenol-d6 | 4.26 | | mg/Kg wet | 6.67 | | 63.8 | 30-130 | | | | |
| urrogate: Nitrobenzene-d5 | 2.08 | | mg/Kg wet | 3.33 | | 62.5 | 30-130 | | | | |
| urrogate: 2-Fluorobiphenyl | 2.55 | | mg/Kg wet | 3.33 | | 76.6 | 30-130 | | | | |
| urrogate: 2,4,6-Tribromophenol | 5.38 | | mg/Kg wet | 6.67 | | 80.8 | 30-130 | | | | |
| urrogate: p-Terphenyl-d14 | 2.34 | | mg/Kg wet | 3.33 | | 70.3 | 30-130 | | | | |



Organochloride Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|----------|--------------------|-----------|----------------|------------------|---------------|----------------|-----|--------------|-------|
| Batch B308354 - SW-846 3546 | | | | | | | | | | |
| Blank (B308354-BLK1) | | | 1 | Prepared: 05 | 5/13/22 Anal | yzed: 05/18/2 | 2 | | | |
| Aldrin | ND | 0.0050 | mg/Kg wet | | | | | | | |
| Aldria [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| alpha-BHC | ND | 0.0050 | mg/Kg wet | | | | | | | |
| alpha-BHC (2C) | ND | 0.0050 | mg/Kg wet | | | | | | | |
| peta-BHC | ND | 0.0050 | mg/Kg wet | | | | | | | |
| peta-BHC [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| lelta-BHC | ND | 0.0050 | mg/Kg wet | | | | | | | |
| lelta-BHC [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| gamma-BHC (Lindane) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| gamma-BHC (Lindane) [2C] | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlordane | ND | 0.020 | mg/Kg wet | | | | | | | |
| Chlordane [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4,4'-DDD | ND | 0.0040 | mg/Kg wet | | | | | | | |
| 1,4'-DDD [2C] | ND | 0.0040 | mg/Kg wet | | | | | | | |
| ,4'-DDE | ND | 0.0040 | mg/Kg wet | | | | | | | |
| 1,4'-DDE [2C] | ND | 0.0040 | mg/Kg wet | | | | | | | |
| ,4'-DDT | ND | 0.0040 | mg/Kg wet | | | | | | | |
| ,4'-DDT [2C] | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dieldrin | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dieldrin [2C] | ND | 0.0040 | mg/Kg wet | | | | | | | |
| dosulfan I | ND | 0.0050 | mg/Kg wet | | | | | | | |
| endosulfan I [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| indosulfan II | ND | 0.0080 | mg/Kg wet | | | | | | | |
| indosulfan II [2C] | ND | 0.0080 | mg/Kg wet | | | | | | | |
| Endosulfan Sulfate | ND | 0.0080 | mg/Kg wet | | | | | | | |
| Endosulfan Sulfate [2C] | ND | 0.0080 | mg/Kg wet | | | | | | | |
| endrin endrin | ND | 0.0080 | mg/Kg wet | | | | | | | |
| Indrin [2C] | ND | 0.0080 | mg/Kg wet | | | | | | | |
| indrin Aldehyde | ND | 0.0080 | mg/Kg wet | | | | | | | |
| indrin Aldehyde [2C] | ND | 0.0080 | mg/Kg wet | | | | | | | |
| Endrin Ketone | ND | 0.0080 | mg/Kg wet | | | | | | | |
| indrin Ketone [2C] | ND | 0.0080 | mg/Kg wet | | | | | | | |
| Ieptachlor | ND | 0.0050 | mg/Kg wet | | | | | | | |
| [eptachlor [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| Ieptachlor Epoxide | ND | 0.0050 | mg/Kg wet | | | | | | | |
| Teptachlor Epoxide [2C] | ND | 0.0050 | mg/Kg wet | | | | | | | |
| [exachlorobenzene | ND | 0.0060 | mg/Kg wet | | | | | | | |
| [exachlorobenzene [2C] | ND | 0.0060 | mg/Kg wet | | | | | | | |
| fethoxychlor | | 0.050 | mg/Kg wet | | | | | | | |
| fethoxychlor [2C] | ND | 0.050 | mg/Kg wet | | | | | | | |
| Oxaphene | ND | 0.10 | mg/Kg wet | | | | | | | |
| oxaphene [2C] | ND ND | 0.10 | mg/Kg wet | | | | | | | |
| urrogate: Decachlorobiphenyl | 0.156 | | mg/Kg wet | 0.200 | | 77.8 | 30-150 | | | |
| urrogate: Decachlorobiphenyl [2C] | 0.144 | | mg/Kg wet | 0.200 | | 71.9 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene | 0.133 | | mg/Kg wet | 0.200 | | 66.5 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene [2C] | 0.127 | | mg/Kg wet | 0.200 | | 63.7 | 30-150 | | | |



Organochloride Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------------|----------------|--------------------|------------------------|----------------|------------------|---------------|------------------|-------|--------------|-------|
| Batch B308354 - SW-846 3546 | | | | | | | | | | |
| LCS (B308354-BS1) | | | | Prepared: 05 | /13/22 Analy | /zed: 05/18/2 | 2 | | | |
| Aldrin | 0.091 | 0.0050 | mg/Kg wet | 0.100 | | 90.8 | 40-140 | | | |
| Aldrin [2C] | 0.081 | 0.0050 | mg/Kg wet | 0.100 | | 81.0 | 40-140 | | | |
| alpha-BHC | 0.091 | 0.0050 | mg/Kg wet | 0.100 | | 90.6 | 40-140 | | | |
| alpha-BHC [2C] | 0.072 | 0.0050 | mg/Kg wet | 0.100 | | 72.3 | 40-140 | | | |
| beta-BHC | 0.087 | 0.0050 | mg/Kg wet | 0.100 | | 86.8 | 40-140 | | | |
| beta-BHC [2C] | 0.080 | 0.0050 | mg/Kg wet | 0.100 | | 79.5 | 40-140 | | | |
| delta-BHC | 0.089 | 0.0050 | mg/Kg wet | 0.100 | | 89.4 | 40-140 | | | |
| delta-BHC [2C] | 0.081 | 0.0050 | mg/Kg wet | 0.100 | | 80.8 | 40-140 | | | |
| gamma-BHC (Lindane) | 0.091 | 0.0020 | mg/Kg wet | 0.100 | | 90.7 | 40-140 | | | |
| gamma-BHC (Lindane) [2C] | 0.076 | 0.0020 | mg/Kg wet | 0.100 | | 76.3 | 40-140 | | | |
| 4,4'-DDD | 0.096 | 0.0040 | mg/Kg wet | 0.100 | | 96.0 | 40-140 | | | |
| 4,4'-DDD [2C] | 0.092 | 0.0040 | mg/Kg wet | 0.100 | | 91.7 | 40-140 | | | |
| 4,4'-DDE | 0.095 | 0.0040 | mg/Kg wet | 0.100 | | 95.5 | 40-140 | | | |
| 4,4'-DDE [2C] | 0.090 | 0.0040 | mg/Kg wet | 0.100 | | 90.0 | 40-140 | | | |
| 4,4'-DDT | 0.094 | 0.0040 | mg/Kg wet | 0.100 | | 93.5 | 40-140 | | | |
| 4,4'-DDT [2C] | 0.087 | 0.0040 | mg/Kg wet | 0.100 | | 86.8 | 40-140 | | | |
| Dieldrin | 0.092 | 0.0040 | mg/Kg wet | 0.100 | | 91.6 | 40-140 | | | |
| Dieldrin [2C] | 0.088 | 0.0040 | mg/Kg wet | 0.100 | | 87.5 | 40-140 | | | |
| Endosulfan I | 0.088 | 0.0050 | mg/Kg wet | 0.100 | | 87.9 | 40-140 | | | |
| Findosulfan I [2C] | 0.078 | 0.0050 | mg/Kg wet | 0.100 | | 77.5 | 40-140 | | | |
| .dosulfan II | 0.085 | 0.0080 | mg/Kg wet | 0.100 | | 84.8 | 40-140 | | | |
| Endosulfan II [2C] Endosulfan Sulfate | 0.082 | 0.0080 | mg/Kg wet mg/Kg wet | 0.100 | | 82.2 73.1 | 40-140 40-140 | | | |
| Endosulfan Sulfate [2C] | 0.073 | 0.0080 | mg/Kg wet | 0.100 0.100 | | 75.1 | 40-140 | | | |
| Endrin | 0.075 | 0.0080 | mg/Kg wet | 0.100 | | 86.5 | 40-140 | | | |
| Endrin [2C] | 0.086 0.086 | 0.0080 | mg/Kg wet | 0.100 | | 86.0 | 40-140 | | | |
| Endrin Ketone | 0.088 | 0.0080 | mg/Kg wet | 0.100 | | 88.4 | 40-140 | | | |
| Endrin Ketone [2C] | 0.081 | 0.0080 | mg/Kg wet | 0.100 | | 81.2 | 40-140 | | | |
| Heptachlor | 0.094 | 0.0050 | mg/Kg wet | 0.100 | | 94.1 | 40-140 | | | |
| Heptachlor [2C] | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 78.7 | 40-140 | | | |
| Heptachlor Epoxide | 0.089 | 0.0050 | mg/Kg wet | 0.100 | | 88.8 | 40-140 | | | |
| Heptachlor Epoxide [2C] | 0.082 | 0.0050 | mg/Kg wet | 0.100 | | 81.9 | 40-140 | | | |
| Hexachlorobenzene | 0.082 | 0.0060 | mg/Kg wet | 0.100 | | 84.4 | 40-140 | | | |
| Hexachlorobenzene [2C] | 0.073 | 0.0060 | mg/Kg wet | 0.100 | | 73.3 | 40-140 | | | |
| Methoxychlor | 0.082 | 0.050 | mg/Kg wet | 0.100 | | 82.0 | 40-140 | | | |
| Methoxychlor [2C] | 0.081 | 0.050 | mg/Kg wet | 0.100 | | 81.2 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | 0.150 | | mg/Kg wet | 0.200 | | 75.2 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.123 | | mg/Kg wet | 0.200 | | 61.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.154 | | mg/Kg wet | 0.200 | | 77.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.122 | | mg/Kg wet | 0.200 | | 60.9 | 30-150 | | | |
| LCS Dup (B308354-BSD1) | | | | Prepared: 05 | /13/22 Analy | zed: 05/18/2 | 22 | | | |
| Aldrin | 0.082 | 0.0050 | mg/Kg wet | 0.100 | | 82.2 | 40-140 | 9.95 | 30 | |
| Aldrin [2C] | 0.081 | 0.0050 | mg/Kg wet | 0.100 | | 81.2 | 40-140 | 0.268 | 30 | |
| lpha-BHC | 0.078 | 0.0050 | mg/Kg wet | 0.100 | | 78.1 | 40-140 | 14.8 | 30 | |
| lpha-BHC [2C] | 0.075 | 0.0050 | mg/Kg wet | 0.100 | | 74.6 | 40-140 | 3.11 | 30 | |
| eta-BHC | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 78.5 | 40-140 | 9.99 | 30 | |
| eta-BHC [2C] | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 78.7 | 40-140 | 1.08 | 30 | |
| 'ta-BHC | 0.081 | 0.0050 | mg/Kg wet | 0.100 | | 81.2 | 40-140 | 9.66 | 30 | |
| elta-BHC [2C] | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 79.2 | 40-140 | 1.94 | 30 | |
| amma-BHC (Lindane) | 0.079 | 0.0020 | mg/Kg wet | 0.100 | | 79.4 | 40-140 | 13.3 | 30 | |
| gamma-BHC (Lindane) [2C] | 0.078 | 0.0020 | mg/Kg wet | 0.100 | | 77.8 | 40-140 | 1.83 | 30 | |



Organochloride Pesticides by GC/ECD - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--------------------------------------|--------|-----------|-----------|-------------|--------------|---------------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch B308354 - SW-846 3546 | | | | | | | | | | |
| LCS Dup (B308354-BSD1) | | | I | repared: 05 | /13/22 Analy | /zed: 05/18/2 | 2 | | | |
| 4,4'-DDD | 0.092 | 0,0040 | mg/Kg wet | 0.100 | | 91.9 | 40-140 | 4.35 | 30 | |
| 4,4'-DDD [2C] | 0.088 | 0.0040 | mg/Kg wet | 0.100 | | 87.7 | 40-140 | 4.46 | 30 | |
| 4,4'-DDE | 0.091 | 0.0040 | mg/Kg wet | 0.100 | | 91.1 | 40-140 | 4.65 | 30 | |
| 4,4'-DDE [2C] | 0.086 | 0.0040 | mg/Kg wet | 0.100 | | 86.2 | 40-140 | 4.31 | 30 | |
| 1,4'-DDT | 0.088 | 0.0040 | mg/Kg wet | 0.100 | | 88.3 | 40-140 | 5.70 | 30 | |
| 4,4'-DDT [2C] | 0.082 | 0.0040 | mg/Kg wet | 0.100 | | 81.6 | 40-140 | 6.23 | 30 | |
| Dieldrin | 0.086 | 0.0040 | mg/Kg wet | 0.100 | | 86.4 | 40-140 | 5.80 | 30 | |
| Dieldrin [2C] | 0.083 | 0.0040 | mg/Kg wet | 0.100 | | 83.5 | 40-140 | 4.71 | 30 | |
| Endosulfan I | 0.082 | 0.0050 | mg/Kg wet | 0.100 | | 82.5 | 40-140 | 6.40 | 30 | |
| Endosulfan I (2C) | 0.077 | 0.0050 | mg/Kg wet | 0.100 | | 77.3 | 40-140 | 0.324 | 30 | |
| Endosulfan II | 0.080 | 0.0080 | mg/Kg wet | 0.100 | | 80.5 | 40-140 | 5.20 | 30 | |
| Endosulfan II [2C] | 0.078 | 0.0080 | mg/Kg wct | 0.100 | | 78.1 | 40-140 | 5.07 | 30 | |
| Endosulfan Sulfate | 0.067 | 0.0080 | mg/Kg wet | 0.100 | | 67.5 | 40-140 | 8.03 | 30 | |
| Endosulfan Sulfate [2C] | 0.070 | 0.0080 | mg/Kg wet | 0.100 | | 70.0 | 40-140 | 7.35 | 30 | |
| Endrin | 0.083 | 0.0080 | mg/Kg wet | 0.100 | | 82.5 | 40-140 | 4.70 | 30 | |
| Endrin [2C] | 0.082 | 0.0080 | mg/Kg wet | 0.100 | | 81.7 | 40-140 | 5.12 | 30 | |
| Endrin Ketone | 0.085 | 0.0080 | mg/Kg wet | 0.100 | | 84.6 | 40-140 | 4.42 | 30 | |
| Endrin Ketone [2C] | 0.077 | 0.0080 | mg/Kg wet | 0.100 | | 77.i | 40-140 | 5.25 | 30 | |
| -feptachlor | 0.083 | 0.0050 | mg/Kg wet | 0.100 | | 83.4 | 40-140 | 12.0 | 30 | |
| Heptachlor [2C] | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 79.3 | 40-140 | 0.799 | 30 | |
| eptachlor Epoxide | 0.082 | 0.0050 | mg/Kg wet | 0.100 | | 82.1 | 40-140 | 7.86 | 30 | |
| Heptachlor Epoxide [2C] | 0.079 | 0.0050 | mg/Kg wet | 0.100 | | 79.3 | 40-140 | 3.23 | 30 | |
| -lexachlorobenzene | 0.077 | 0.0060 | mg/Kg wet | 0.100 | | 76.8 | 40-140 | 9.43 | 30 | |
| Hexachlorobenzene [2C] | 0.076 | 0.0060 | mg/Kg wet | 0.100 | | 76.1 | 40-140 | 3.73 | 30 | |
| Methoxychlor | 0.077 | 0.050 | mg/Kg wet | 0.100 | | 77.2 | 40-140 | 5.93 | 30 | |
| Methoxychlor [2C] | 0.077 | 0.050 | mg/Kg wet | 0.100 | | 76.7 | 40-140 | 5.68 | 30 | |
| Surrogate: Decachlorobiphenyl | 0.143 | | mg/Kg wet | 0.200 | | 71.6 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.121 | | mg/Kg wet | 0.200 | | 60.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.136 | | mg/Kg wet | 0.200 | | 68.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.129 | | mg/Kg wet | 0.200 | | 64.4 | 30-150 | | | |



Polychlorinated Biphenyls By GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|---------------------------------------|--------------------|-----------|----------------|------------------|--------------|----------------|-------|--------------|--------|
| Batch B308353 - SW-846 3546 | | | | | | | | | | |
| Blank (B308353-BLK1) | Prepared: 05/13/22 Analyzed: 05/17/22 | | | | | | | | | |
| Aroclor-1016 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Surrogate: Decachiorobiphenyl | 0.194 | | mg/Kg wet | 0.200 | | 97.1 | 30-150 | | | |
| urogate: Decachlorobiphenyl [2C] | 0.193 | | mg/Kg wet | 0.200 | | 96.3 | 30-150 | | | |
| rrogate: Tetrachloro-m-xylene | 0.159 | | mg/Kg wet | 0.200 | | 79.5 | 30-150 | | | |
| surrogate: Tetrachloro-m-xylene [2C] | 0.141 | | mg/Kg wet | 0.200 | | 70.5 | 30-150 | | | |
| .CS (B308353-BS1) | | | F | repared: 05 | /13/22 Analy | zed: 05/17/2 | 2 | | | |
| Aroclor-1016 | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 73.4 | 40-140 | | | |
| troclor-1016 [2C] | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 75.4 | 40-140 | | | |
| troclor-1260 | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 81.8 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 80.2 | 40-140 | | | |
| urrogate: Decachlorobiphenyl | 0.196 | | mg/Kg wet | 0.200 | | 98.0 | 30-150 | | | |
| urrogate: Decachlorobiphenyl [2C] | 0.195 | | mg/Kg wet | 0.200 | | 97.5 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene | 0.166 | | mg/Kg wet | 0.200 | | 82.8 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene [2C] | 0.148 | | mg/Kg wet | 0.200 | | 74.1 | 30-150 | | | |
| CS Dup (B308353-BSD1) | | | P | repared: 05/ | /13/22 Analy | zed: 05/17/2 | 2 | | | |
| roclor-1016 | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 73.9 | 40-140 | 0.797 | 30 | ****** |
| roclor-1016 [2C] | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 76.0 | 40-140 | 0.847 | 30 | |
| roclor-1260 | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 83.2 | 40-140 | 1.70 | 30 | |
| roclor-1260 [2C] | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 82.1 | 40-140 | 2.41 | 30 | |
| urrogate: Decachlorobiphenyl | 0.195 | | mg/Kg wet | 0.200 | | 97.3 | 30-150 | | | |
| urrogate: Decachlorobiphenyl [2C] | 0.195 | | mg/Kg wet | 0.200 | | 97.5 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene | 0.163 | | mg/Kg wet | 0.200 | | 81.4 | 30-150 | | | |
| urrogate: Tetrachloro-m-xylene [2C] | 0.147 | | mg/Kg wet | 0.200 | | 73.5 | 30-150 | | | |



Herbicides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------|---------------------------------------|--------------------|-----------|----------------|------------------|--------------|----------------|-----|--------------|-------|
| Batch B309280 - SW-846 8151 | | | | | | | | | | |
| Blank (B309280-BLK1) | Prepared: 05/25/22 Analyzed: 05/29/22 | | | | | | | | | |
| 2,4-D | ND | 24 | μg/kg wet | | | | | | | |
| 2,4-D [2C] | ND | 24 | μg/kg wet | | | | | | | |
| 2,4-DB | ND | 24 | μg/kg wet | | | | | | | |
| 2,4-DB [2C] | ND | 24 | μg/kg wet | | | | | | | |
| 2,4,5-TP (Silvex) | ND | 2.4 | μg/kg wet | | | | | | | |
| 2,4,5-TP (Silvex) [2C] | ND | 2.4 | μg/kg wet | | | | | | | |
| 2,4,5-T | ND | 2.4 | μg/kg wet | | | | | | | |
| ,4,5-T [2C] | ND | 2.4 | μg/kg wet | | | | | | | |
| Palapon | ND | 60 | μg/kg wet | | | | | | | |
| Palapon [2C] | ND | 60 | μg/kg wet | | | | | | | |
| Dicamba | ND | 2.4 | μg/kg wet | | | | | | | |
| Dicamba [2C] | ND | 2.4 | μg/kg wet | | | | | | | |
| Pichloroprop | ND | 24 | μg/kg wet | | | | | | | |
| Pichloroprop [2C] | ND | 24 | μg/kg wet | | | | | | | |
| 1CPA | ND | 2400 | μg/kg wet | | | | | | | |
| 1CPA [2C] | ND | 2400 | μg/kg wet | | | | | | | |
| 1CPP | ND | 2400 | μg/kg wet | | | | | | | V-06 |
| 1CPP [2C] | ND | 2400 | μg/kg wet | | | | | | | 1-00 |
| urrogate: 2,4-Dichlorophenylacetic acid | 64.0 | | μg/kg wet | 95.2 | | 67.2 | 30-150 | | | |
| urogate: 2,4-Dichlorophenylacetic acid | 64.1 | | μg/kg wet | 95.2 | | 67.3 | 30-150 | | | |
| 7] | | | F6 6 | | | | | | | |
| CS (B309280-BS1) | | | 1 | Prepared: 05 | /25/22 Analy | zed: 05/29/2 | 2 | | | |
| 4-D | 95.0 | 25 | μg/kg wet | 125 | | 76.0 | 40-140 | | | |
| 4-D [2C] | 102 | 25 | μg/kg wet | 125 | | 81.2 | 40-140 | | | |
| 4-DB | 73.9 | 25 | μg/kg wet | 125 | | 59.1 | 40-140 | | | |
| 4-DB [2C] | 73.7 | 25 | μg/kg wet | 125 | | 58.9 | 40-140 | | | |
| 4,5-TP (Silvex) | 9.50 | 2.5 | μg/kg wet | 12.5 | | 76.0 | 40-140 | | | |
| 4,5-TP (Silvex) [2C] | 10.3 | 2.5 | μg/kg wet | 12.5 | | 82.8 | 40-140 | | | |
| 4,5-T | 9.04 | 2.5 | μg/kg wet | 12.5 | | 72.3 | 40-140 | | | |
| 4,5-T [2C] | 9.49 | 2.5 | μg/kg wet | 12.5 | | 75.9 | 40-140 | | | |
| alapon | 149 | 62 | μg/kg wet | 312 | | 47.6 | 40-140 | | | |
| alapon [2C] | 148 | 62 | μg/kg wet | 312 | | 47.5 | 40-140 | | | |
| icamba | 9.12 | 2.5 | μg/kg wet | 12.5 | | 72.9 | 40-140 | | | |
| icamba [2C] | 9.86 | 2.5 | μg/kg wet | 12.5 | | 78.9 | 40-140 | | | |
| ichloroprop | 100 | 25 | μg/kg wet | 125 | | 80.2 | 40-140 | | | |
| ichloroprop [2C] | 103 | 25 | μg/kg wet | 125 | | 82.4 | 40-140 | | | |
| CPA. | 10800 | 2500 | μg/kg wet | 12500 | | 86.2 | 40-140 | | | |
| CPA [2C] | 9010 | 2500 | μg/kg wet | 12500 | | 72.1 | 40-140 | | | |
| CPP | 13000 | 2500 | μg/kg wet | 12500 | | 104 | 40-140 | | | V-06 |
| CPP [2C] | 9770 | 2500 | μg/kg wet | 12500 | | 78.1 | 40-140 | | | V-U0 |
| urrogate: 2,4-Dichlorophenylacetic acid | 70.7 | | μg/kg wet | 100 | | 70.7 | 30-150 | | | |
| urogate: 2,4-Dichlorophenylacetic acid | 73.4 | | μg/kg wet | 100 | | 73.4 | 30-150 | | | |
| C] | 13.7 | | PRIVE MCI | 100 | | 13.7 | 20-120 | | | |



QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------------|--------|--------------------|-----------|----------------|------------------|---------------|----------------|-------|--------------|-------------|
| Batch B309280 - SW-846 8151 | | | | | | | | | | |
| LCS Dup (B309280-BSD1) | | | | Prepared: 05 | /25/22 Anal | yzed: 05/29/2 | 22 | | | |
| 2,4-D | 95.8 | 25 | μg/kg wet | 125 | | 76.6 | 40-140 | 0.837 | 30 | |
| 2,4-D [2C] | 103 | 25 | μg/kg wet | 125 | | 82.2 | 40-140 | 1.21 | 30 | |
| 2,4-DB | 73.5 | 25 | μg/kg wet | 125 | | 58.8 | 40-140 | 0.615 | 30 | |
| 2,4-DB [2C] | 74.7 | 25 | μg/kg wet | 125 | | 59.8 | 40-140 | 1.41 | 30 | |
| 2,4,5-TP (Silvex) | 9.42 | 2.5 | μg/kg wet | 12.5 | | 75.4 | 40-140 | 0.864 | 30 | |
| 2,4,5-TP (Silvex) [2C] | 10.4 | 2.5 | μg/kg wet | 12.5 | | 83.4 | 40-140 | 0.806 | 30 | |
| 2,4,5-T | 8.96 | 2.5 | μg/kg wet | 12.5 | | 71.7 | 40-140 | 0.842 | 30 | |
| 2,4,5-T [2C] | 9.59 | 2.5 | μg/kg wet | 12.5 | | 76.8 | 40-140 | 1.14 | 30 | |
| Dalapon | 149 | 62 | μg/kg wet | 312 | | 47.8 | 40-140 | 0.288 | 30 | |
| Dalapon [2C] | 149 | 62 | μg/kg wet | 312 | | 47.7 | 40-140 | 0.427 | 30 | |
| Dicamba | 9.75 | 2.5 | μg/kg wet | 12.5 | | 78.0 | 40-140 | 6.66 | 30 | |
| Dicamba [2C] | 9.97 | 2.5 | μg/kg wet | 12.5 | | 79.7 | 40-140 | 1.09 | 30 | |
| Dichloroprop | 101 | 25 | μg/kg wet | 125 | | 80.9 | 40-140 | 0.908 | 30 | |
| Dichloroprop [2C] | 104 | 25 | μg/kg wet | 125 | | 83.4 | 40-140 | 1.20 | 30 | |
| MCPA | 10800 | 2500 | μg/kg wet | 12500 | | 86.4 | 40-140 | 0.225 | 30 | |
| MCPA [2C] | 9110 | 2500 | μg/kg wet | 12500 | | 72.9 | 40-140 | 1.11 | 30 | |
| MCPP | 13300 | 2500 | μg/kg wet | 12500 | | 106 | 40-140 | 1.59 | 30 | V-06 |
| MCPP [2C] | 9870 | 2500 | μg/kg wet | 12500 | | 78.9 | 40-140 | 0.995 | 30 | |
| Surrogate: 2,4-Dichlorophenylacetic acid | 71.3 | | μg/kg wet | 100 | | 71.3 | 30-150 | | | |
| Surrogate: 2,4-Dichlorophenylacetic acid | 74.1 | | μg/kg wet | 100 | | 74.1 | 30-150 | | | |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

| Aпalyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|--------------------|-----------|----------------|------------------|--------------|----------------|------|--------------|-------|
| Batch B308525 - SW-846 3546 | | | | | | | | | | |
| Blank (B308525-BLK1) | | | | Prepared: 05 | 5/16/22 Anal | yzed: 05/18/ | 22 | | | |
| ТРН (С9-С36) | ND | 8.3 | mg/Kg wet | | | | | | | |
| Surrogate: 2-Fluorobiphenyl | 2.50 | · | mg/Kg wet | 3.33 | | 74.9 | 40-140 | | | |
| LCS (B308525-BS1) | | | | Prepared: 05 | 5/16/22 Anal | yzed: 05/18/ | 22 | | | |
| TPH (C9-C36) | 24.2 | 8.3 | mg/Kg wet | 33.3 | | 72.7 | 40-140 | | | |
| Surrogate: 2-Fluorobiphenyl | 2.22 | | mg/Kg wet | 3.33 | | 66.6 | 40-140 | | | |
| LCS Dup (B308525-BSD1) | | | | Prepared: 05 | i/16/22 Anal | yzed: 05/18/ | 22 | | | |
| ТРН (С9-С36) | 26.6 | 8.3 | mg/Kg wet | 33.3 | | 79.8 | 40-140 | 9.25 | 30 | |
| Surrogate: 2-Fluorobiphenyl | 2.41 | | mg/Kg wet | 3.33 | | 72.2 | 40-140 | | | |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|--------------------|-----------|----------------|------------------|--------------|----------------|-------|--------------|-------|
| Batch B308621 - SW-846 3050B | | | | | | | | | | |
| Blank (B308621-BLK1) | | | | Prepared: 05 | /17/22 Analy | zed: 05/24/2 | 22 | | | |
| Antimony | ND | 1.7 | mg/Kg wet | | | | | | | |
| Arsenic | ND | 3.3 | mg/Kg wet | | | | | | | |
| 3arium | ND | 1.7 | mg/Kg wet | | | | | | | |
| Beryllium | ND | 0.17 | mg/Kg wet | | | | | | | |
| Cadmium | ND | 0.33 | mg/Kg wet | | | | | | | |
| Chromium | ND | 0.66 | mg/Kg wet | | | | | | | |
| _ead | ND | 0.50 | mg/Kg wet | | | | | | | |
| Vickel | ND | 0.66 | mg/Kg wet | | | | | | | |
| elenium | ND | 3.3 | mg/Kg wet | | | | | | | |
| lilver | ND | 0.33 | mg/Kg wet | | | | | | | |
| 'hallium | ND | 1.7 | mg/Kg wet | | | | | | | |
| ⁄anadium | ND | 0.66 | mg/Kg wet | | | | | | | |
| inc | ND | 0.66 | mg/Kg wet | | | | | | | |
| CS (B308621-BS1) | | | | Prepared: 05 | /17/22 Analy | zed: 05/24/ | 22 | | | |
| antimony | 85.7 | 4.9 | mg/Kg wet | 99.5 | | 86.1 | 2.5-209 | | | |
| rsenic | 141 | 9.8 | mg/Kg wet | 140 | | 101 | 82.9-117.9 | | | |
| arium | 212 | 4.9 | mg/Kg wet | 202 | | 105 | 81.2-118.3 | | | |
| eryllium | 45.6 | 0.49 | mg/Kg wet | 42.6 | | 107 | 81-119 | | | |
| admium | 95.5 | 0.98 | mg/Kg wet | 97.9 | | 97.6 | 80-119.5 | | | |
| romium | 59.0 | 2.0 | mg/Kg wet | 60.4 | | 97.6 | 80.3-119.7 | | | |
| :ad | 57.7 | 1.5 | mg/Kg wet | 56.7 | | 102 | 82.9-116.9 | | | |
| fickel | 153 | 2.0 | mg/Kg wet | 151 | | 101 | 79.5-121.2 | | | |
| elenium | 37.4 | 9.8 | mg/Kg wet | 35.5 | | 105 | 77.5-122.3 | | | |
| ilver | 21.4 | 0.98 | mg/Kg wet | 20.4 | | 105 | 79.4-121.1 | | | |
| 'hallium | 71.8 | 4.9 | mg/Kg wet | 69.3 | | 104 | 79.4-120.6 | | | |
| 'anadium | 45.3 | 2.0 | mg/Kg wet | 44.9 | | 101 | 78-121.8 | | | |
| inc | 182 | 2.0 | mg/Kg wet | 186 | | 98.0 | 79-121 | | | |
| CS Dup (B308621-BSD1) | | | | Prepared: 05 | i/17/22 Analy | /zed: 05/24/ | 22 | | | |
| ntimony | 91.0 | 5.0 | mg/Kg wet | 99.5 | | 91.5 | 2.5-209 | 6.02 | 30 | |
| rsenic | 144 | 10 | mg/Kg wet | 140 | | 103 | 82.9-117.9 | 1.83 | 30 | |
| arium | 215 | 5.0 | mg/Kg wet | 202 | | 107 | 81.2-118.3 | 1.69 | 20 | |
| eryllium | 46.5 | 0.50 | mg/Kg wet | 42.6 | | 109 | 81-119 | 2.06 | 30 | |
| admium | 99.4 | 1.0 | mg/Kg wet | 97.9 | | 101 | 80-119.5 | 3.96 | 20 | |
| hromium | 61.6 | 2.0 | mg/Kg wet | 60.4 | | 102 | 80.3-119.7 | 4.39 | 30 | |
| ead | 58.6 | 1.5 | mg/Kg wet | 56.7 | | 103 | 82.9-116.9 | 1.58 | 30 | |
| ickel | 155 | 2.0 | mg/Kg wet | 151 | | 102 | 79.5-121.2 | 1.10 | 30 | |
| elenium | 38.9 | 10 | mg/Kg wet | 35.5 | | 109 | 77.5-122.3 | 3.75 | 30 | |
| ilver | 22.1 | 1.0 | mg/Kg wet | 20.4 | | 108 | 79.4-121.1 | 3.16 | 30 | |
| hallium | 75.5 | 5.0 | mg/Kg wet | 69.3 | | 109 | 79.4-120.6 | 5.01 | 30 | |
| 'anadium | 47.2 | 2.0 | mg/Kg wet | 44.9 | | 105 | 78-121.8 | 4.12 | 30 | |
| inc | 183 | 2,0 | mg/Kg wet | 186 | | 98.4 | 79-121 | 0.384 | 30 | |



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch B308621 - SW-846 3050B | | | | | | | | | | |
| Reference (B308621-SRM1) MRL Check | | | | Prepared: 05 | 5/17/22 Analy | yzed: 05/24 | /22 | | | |
| Lead | 0.640 | 0.50 | mg/Kg wet | 0.498 | | 129 | 80-120 | | | M-10 |
| Batch B309067 - SW-846 7471 | | | | | | | | | | |
| Blank (B309067-BLK1) | | | | Prepared & | Analyzed: 05/ | /23/22 | | | | |
| Mercury | ND | 0.025 | mg/Kg wet | | | | | | | |
| LCS (B309067-BS1) | | | | Prepared & | Analyzed: 05 | /23/22 | | | | |
| Mercury | 14.4 | 0.73 | mg/Kg wet | 16.5 | | 87.5 | 74.5-124.8 | | | |
| LCS Dup (B309067-BSD1) | | | | Prepared & | Analyzed: 05/ | /23/22 | | | | |
| Mercury | 14.8 | 0.74 | mg/Kg wet | 16.5 | | 89.9 | 74.5-124.8 | 2.70 | 20 | |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC | RPD | RPD Limit | Notes |
|----------------------------------------|----------|--------------------|----------|----------------|------------------|--------------|----------|---------------------------------------|--------------|--------|
| Batch B308341 - SW-846 9045C | ANDJUL | 2.mut | Onto | 20101 | asodus | ,,,,,,,,, | ar1114d | | e- | 110103 |
| LCS (B308341-BS1) | | | | Dranged & | Analyzed: 05 | /12/22 | | | | |
| pH | 5.98 | | pH Units | 6.00 | Allalyzed: 05 | 99.6 | 90-110 | | | ···· |
| - | 3.76 | | priomo | | | | 30-110 | | | |
| LCS (B308341-BS2) | | ~ | | | Analyzed: 05/ | | ···· | | | |
| pH | 5.98 | | pH Units | 6.00 | | 99.7 | 90-110 | | | |
| Batch B308429 - SM21-23 2510B Modified | | <u> </u> | | | | | | | | |
| Blauk (B308429-BLK1) | | | | Prepared: 05 | /14/22 Analy | yzed: 05/17/ | 22 | | | |
| Specific conductance | ND | 2.0 | μmhos/cm | | | | | | | |
| LCS (B308429-BS1) | | | | Prepared & | Analyzed: 05 | /14/22 | | | | |
| Specific conductance | 140 | | μmhos/cm | 137 | | 104 | 90-122 | | | |
| Duplicate (B308429-DUP1) | Sou | rce: 22E0834 | -01 | Prepared & | Analyzed: 05/ | /14/22 | | | | |
| Specific conductance | 11 | 2.0 | μmhos/cm | | 9.7 | | | 14.3 | 41.4 | |
| Batch B308563 - SW-846 9030A | | | | | | | | | | |
| Blank (B308563-BLK1) | | | | Prepared: 05 | /17/22 Analy | yzed: 05/18/ | 22 | | | |
| Reactive Sulfide | ND | 2.0 | mg/Kg | | | | | | | |
| LCS (B308563-BS1) | | | | Prepared: 05 | /17/22 Analy | yzed: 05/18/ | 22 | | | |
| active Sulfide | . 12 | 2.0 | mg/Kg | 10.0 | | 116 | 75.7-125 | | | |
| Batch B308564 - SW-846 9014 | | | | | | | | | | |
| Blank (B308564-BLK1) | | | | Prepared: 05 | /17/22 Analy | yzed: 05/18/ | 22 | | | |
| Reactive Cyanide | ND | 0.40 | mg/Kg | | | | | · · · · · · · · · · · · · · · · · · · | | |
| LCS (B308564-BS1) | | | | Prepared: 05 | /17/22 Analy | yzed: 05/18/ | 22 | | | |
| Reactive Cyanide | 9.5 | 0.40 | mg/Kg | 10.0 | | 95.4 | 81.2-113 | | | |
| Batch B308571 - SW-846 1010A-B | | | | | | | | | | |
| Blank (B308571-BLK1) | | | | Prepared & A | Analyzed: 05/ | /17/22 | | | | |
| Flashpoint | > 212 °F | | •F | | | | | | | |
| LCS (B308571-BS1) | | | | Prepared & A | Analyzed: 05/ | /17/22 | | | | |
| Flashpoint | 81 | | °F | 81.0 | <u> </u> | 99.9 | 98.8-101 | | | |
| | | | | | | | | | | |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------|--------|--------------------|-------|----------------|------------------|--------|----------------|------|--------------|-------|
| Batch B308571 - SW-846 1010A-B | | | | | | | | | | |
| LCS Dup (B308571-BSD1) | | | | Prepared & | Analyzed: 05 | /17/22 | | | | |
| Flashpoint | RI | | °F | 81.0 | | 99.9 | 98.8-101 | 0.00 | 5 | |



BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM1 | Analyzed: 05/17/2022 |
|---------------------------|------------------|----------------------|
| Column Number: | 1 | |
| Analyte | % Breakdown | |
| 4,4'-DDT [1] | 10.34 | |
| Endrin [1] | 9.07 | |
| | | |
| Column Number: | 2 | |
| Column Number: Analyte | I % Breakdown | |
| | | |

BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM2 | Analyzed: | 05/17/2022 |
|----------------|--------------|-----------|------------|
| Column Number: | 1 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [1] | 9.87 | | |
| Endrin [1] | 8.21 | | |
| Columa Number: | 2 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [2] | 8.94 | | |
| Endrin [2] | 8.13 | | |

BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM3 | Analyzed: | 05/18/2022 |
|----------------|--------------|-----------|------------|
| Column Number: | 1 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [1] | 8.54 | | |
| Endrin [1] | 9.91 | | |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM3 | Analyzed: | 05/18/2022 |
|----------------|--------------|-----------|------------|
| Column Number: | 2 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [2] | 7.76 | | |
| Endrin [2] | 9.87 | | |

BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM4 | Analyzed: | 05/18/2022 |
|----------------|--------------|-----------|------------|
| Columa Number: | 1 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [1] | 8.33 | | |
| Endrin [1] | 9.25 | | |
| Column Number: | 2 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [2] | 7.59 | | |
| Endrin [2] | 9.54 | | |

BREAKDOWN REPORT

| Lab Sample ID: | S071717-PEM5 | Analyzed: | 05/18/2022 |
|----------------|--------------|-----------|------------|
| Column Number: | 1 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [1] | 7.27 | | |
| Endrin [1] | 9.94 | | |
| Column Number: | 2 | | |
| Analyte | % Breakdown | | |
| 4,4'-DDT [2] | 6.53 | | |
| Endrin [2] | 9.61 | | |

BREAKDOWN REPORT



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 BREAKDOWN REPORT

| Lab Sample ID: | S071799-PEM1 | Analyzed: 05/22/2022 |
|----------------|--------------|----------------------|
| Column Number: | 1 | |
| Analyte | % Breakdown | |
| 4,4'-DDT [1] | 2.02 | |
| Endrin [1] | 1.49 | |
| | | |
| Column Number: | 2 | |
| Analyte | % Breakdown | |
| 4,4'-DDT [2] | 1.65 | |
| Endrin [2] | 2.06 | |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Comp.#1.(2-10ft)

| Lab Sample ID: | 22E0834-01 | | Date(s) Analyzed: | 05/22/2022 05/22/2022 | | |
|--------------------|------------|------|--------------------|-----------------------|-----|------|
| Instrument ID (1): | ECD6A | | Instrument ID (2): | ECD6B | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm) |

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---------------------|-----|-------|-----------|-------|-----------------------------------------|--------|
| 7 17 47 122 0 1 222 | 002 | | FROM | TO | 001102111111111111111111111111111111111 | 701112 |
| 4,4'-DDD | 1 | 7.181 | 0.000 | 0.000 | 28 | |
| | 2 | 7.190 | 0.000 | 0.000 | 34 | 15.9 |
| 4,4'-DDE | 1 | 6.742 | 0.000 | 0.000 | 3.2 | |
| | 2 | 6.763 | 0.000 | 0.000 | 2.7 | 16.9 |
| 4,4'-DDT | _ 1 | 7.392 | 0.000 | 0.000 | 1400 | |
| | 2 | 7.427 | 0.000 | 0.000 | 1400 | 0.0 |
| Dieldrin | 1 | 6.957 | 0.000 | 0.000 | 7.8 | |
| | 2 | 6.867 | 0.000 | 0.000 | 7.1 | 9.4 |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| | | |
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| L | .cs | |

SW-846 8082A

| Lab Sample ID: | B308353-BS1 | | Date(s) Analyzed: | 05/17/2022 | 05/17/202 | 22 |
|--------------------|-------------|------|--------------------|------------|-----------|------|
| Instrument ID (1): | ECD1 | | Instrument ID (2): | ECD1 | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm) |

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|--------------------|---------|
| 711712172 | 002 | | FROM | TO | 001102111111111011 | 7,011.1 |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.15 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.15 | 0.0 |
| Arocior-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.16 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.16 | 0.0 |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| LCS Dup | |
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SW-846 8082A

| Lab Sample ID: | B308353-BSD1 | | Date(s) Analyzed: | 05/17/2022 | 05/17/2022 |
|--------------------|--------------|--------------|--------------------|------------|------------|
| Instrument ID (1): | ECD1 | | Instrument ID (2): | ECD1 | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: (mm) |

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|----------|
| 71147121712 | 002 | ,,, | FROM | TO | CONCENTION | 70111111 |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.15 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.15 | 0.0 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.17 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.16 | 6.1 |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| LCS | 3 | |
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| | | |

| Lab Sample ID: | B308354-BS1 | | Date(s) Analyzed: | 05/18/2022 | 05/18/20 |)22 |
|--------------------|-------------|------|--------------------|------------|----------|------|
| Instrument ID (1): | ECD2 | | Instrument ID (2): | ECD2 | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm) |

| ANALYTE | COL | COL RT | | NDOW | CONCENTRATION | %RPD |
|---------------------|-----|--------|-------|-------|---------------|------|
| ANALTIE | OOL | | FROM | TO | CONCENTIATION | 7017 |
| 4,4'-DDD | 11 | 7.764 | 0.000 | 0.000 | 0.096 | |
| | 2 | 7.543 | 0.000 | 0.000 | 0.092 | 4.3 |
| 4,4'-DDE | 1 | 7.298 | 0.000 | 0.000 | 0.095 | |
| | 2 | 7.100 | 0.000 | 0.000 | 0.090 | 6.5 |
| 4,4'-DDT | 1 | 7.978 | 0.000 | 0.000 | 0.094 | |
| | 2 | 7.784 | 0.000 | 0.000 | 0.087 | 7.7 |
| Aldrin | 1 | 6.608 | 0.000 | 0.000 | 0.091 | |
| | 2 | 6.331 | 0.000 | 0.000 | 0.081 | 11.6 |
| alpha-BHC | 1 | 5.828 | 0.000 | 0.000 | 0.091 | |
| | 2 | 5.597 | 0.000 | 0.000 | 0.072 | 23.3 |
| beta-BHC | 1 | 6.105 | 0.000 | 0.000 | 0.087 | |
| | . 2 | 5.887 | 0.000 | 0.000 | 0.080 | 8.4 |
| delta-BHC | 1 | 6.235 | 0.000 | 0.000 | 0.089 | |
| | 2 | 6.086 | 0.000 | 0.000 | 0.081 | 9.4 |
| Dieldrin | 1 | 7.545 | 0.000 | 0.000 | 0.092 | |
| | 2 | 7.220 | 0.000 | 0.000 | 0.088 | 4.4 |
| Endosulfan I | 1 | 7.362 | 0.000 | 0.000 | 0.088 | |
| | 2 | 7.014 | 0.000 | 0.000 | 0.078 | 12.0 |
| Endosulfan II | 1 | 7.903 | 0.000 | 0.000 | 0.085 | |
| | 2 | 7.624 | 0.000 | 0.000 | 0.082 | 3.6 |
| Endosulfan Sulfate | 1 | 8.494 | 0.000 | 0.000 | 0.073 | |
| | 2 | 8.083 | 0.000 | 0.000 | 0.075 | 2.7 |
| Endrin | 1 | 7.729 | 0.000 | 0.000 | 0.086 | |
| | 2 | 7.452 | 0.000 | 0.000 | 0.086 | 1.2 |
| Endrin Ketone | 1 | 8.668 | 0.000 | 0.000 | 0.088 | |
| | 2 | 8.445 | 0.000 | 0.000 | 0.081 | 8.3 |
| gamma-BHC (Lindane) | 1 | 6.048 | 0.000 | 0.000 | 0.091 | |
| | 2 | 5.824 | 0.000 | 0.000 | 0.076 | 18.0 |
| Heptachlor | 1 | 6.387 | 0.000 | 0.000 | 0.094 | |
| | 2 | 6.110 | 0.000 | 0.000 | 0.079 | 17.3 |
| Heptachlor Epoxide | 1 | 7.059 | 0.000 | 0.000 | 0.089 | |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| LCS | |
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| | |

| Lab Sample ID: B308354-BS1 | | | Date(s) Analyzed: | 05/18/2022 | 05/18/2022 | 2 |
|----------------------------|------|------|--------------------|------------|------------|------|
| Instrument ID (1): | ECD2 | | Instrument ID (2): | ECD2 | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: (| (mm) |

| ANALYTE | COL | COL PT | | COL RT RT WINDOW | | CONCENTRATION | %RPD |
|-------------------|-----|--------|-------|------------------|----------------|---------------|------|
| 711712 | 002 | | FROM | то | CONCENTIVATION | 701112 | |
| | 2 | 6.731 | 0.000 | 0.000 | 0.082 | 8.2 | |
| Hexachlorobenzene | 1 | 5.710 | 0.000 | 0.000 | 0.084 | | |
| | 2 | 5.509 | 0.000 | 0.000 | 0.073 | 14.0 | |
| Methoxychlor | 1 | 8.309 | 0.000 | 0.000 | 0.082 | | |
| | 2 | 8.301 | 0.000 | 0.000 | 0.081 | 1.2 | |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

| Lab Sample ID: B308354-BSD1 | | | Date(s) Analyzed: | 05/18/2022 05/18/2022 | | |
|-----------------------------|------|------|--------------------|-----------------------|-----|-----|
| instrument ID (1): | ECD2 | | Instrument ID (2): | ECD2 | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm |

| ANALYTE | COL | RT | RT WI | NDOW | CONCENTRATION | %RPD |
|---------------------|-----|-------|-------|-------|---------------|---------|
| 71171111 | 002 | 1 | FROM | ТО | CONCENTIATION | 70111 2 |
| 4,4'-DDD | 1 | 7.765 | 0.000 | 0.000 | 0.092 | |
| | 2 | 7.544 | 0.000 | 0.000 | 0.088 | 4.4 |
| 4,4'-DDE | 1 | 7.299 | 0.000 | 0.000 | 0.091 | |
| | 2 | 7.101 | 0.000 | 0.000 | 0.086 | 5.7 |
| 4,4'-DDT | 1 | 7.980 | 0.000 | 0.000 | 0.088 | |
| | 2 | 7.785 | 0.000 | 0.000 | 0.082 | 7.1 |
| Aldrin | 1 | 6.609 | 0.000 | 0.000 | 0.082 | |
| | 2 | 6.331 | 0.000 | 0.000 | 0.081 | 1.2 |
| alpha-BHC | 1 | 5.828 | 0.000 | 0.000 | 0.078 | |
| | 2 | 5.597 | 0.000 | 0.000 | 0.075 | 3.9 |
| beta-BHC | 1 | 6.106 | 0.000 | 0.000 | 0.079 | |
| | 2 | 5.887 | 0.000 | 0.000 | 0.079 | 0.0 |
| delta-BHC | 1 | 6.235 | 0.000 | 0.000 | 0.081 | |
| | 2 | 6.086 | 0.000 | 0.000 | 0.079 | 2.5 |
| Dieldrin | 1 | 7.547 | 0.000 | 0.000 | 0.086 | |
| | 2 | 7.221 | 0.000 | 0.000 | 0.083 | 3.6 |
| Endosulfan I | 1 | 7.363 | 0.000 | 0.000 | 0.082 | |
| | 2 | 7.015 | 0.000 | 0.000 | 0.077 | 7.5 |
| Endosulfan II | 1 | 7.904 | 0.000 | 0.000 | 0.080 | |
| | 2 | 7.625 | 0.000 | 0.000 | 0.078 | 3.8 |
| Endosulfan Sulfate | 1 | 8.495 | 0.000 | 0.000 | 0.067 | |
| | 2 | 8.084 | 0.000 | 0.000 | 0.070 | 2.9 |
| Endrin | 1 | 7.730 | 0.000 | 0.000 | 0.083 | |
| | 2 | 7.453 | 0.000 | 0.000 | 0.082 | 1.2 |
| Endrin Ketone | 1 | 8.669 | 0.000 | 0.000 | 0.085 | |
| | 2 | 8.446 | 0.000 | 0.000 | 0.077 | 9.9 |
| gamma-BHC (Lindane) | 1 | 6.048 | 0.000 | 0.000 | 0.079 | |
| | 2 | 5.825 | 0.000 | 0.000 | 0.078 | 1.3 |
| Heptachlor | 1 | 6.388 | 0.000 | 0.000 | 0.083 | |
| | 2 | 6.110 | 0.000 | 0.000 | 0.079 | 4.9 |
| Heptachlor Epoxide | 1 | 7.060 | 0.000 | 0.000 | 0.082 | |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| LCS. | Dup | | |
|------|-----|--|--|

| Lab Sample ID: | B308354-BSD1 | | Date(s) Analyzed: | 05/18/2022 | 05/18/2022 |
|--------------------|--------------|------|--------------------|------------|------------|
| Instrument ID (1): | ECD2 | - | Instrument ID (2): | ECD2 | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: (mm) |

| ANALYTE | COL | COL RT | | NDOW | CONCENTRATION | %RPD |
|-------------------|-----|--------|-------|-------|---------------|---------|
| | | ,,,, | FROM | ТО | CONCENTRATION | /61 \FD |
| | 2 | 6.731 | 0.000 | 0.000 | 0.079 | 3.7 |
| Hexachlorobenzene | 1 | 5.711 | 0.000 | 0.000 | 0.077 | |
| | 2 | 5.509 | 0.000 | 0.000 | 0.076 | 1.3 |
| Methoxychlor | 1 | 8.310 | 0.000 | 0.000 | 0.077 | |
| | 2 | 8.301 | 0.000 | 0.000 | 0.077 | 0.0 |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| LCS | | | | |
|-----|--|--|--|--|

SW-846 8151A

| Lab Sample ID: | B309280-BS1 | | Date(s) Analyzed: | 05/29/2022 05/29/2022 | | |
|--------------------|-------------|------|--------------------|-----------------------|-----|------|
| Instrument ID (1): | ECD 8 | , | Instrument ID (2): | ECD 8 | ı | _ |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm) |

| ANALYTE | COL | RT | RT RT WINDOW | | CONCENTRATION | %RPD |
|-------------------|-----|--------|--------------|-------|---------------|---------|
| 7 11 17 12 1 1 12 | | | FROM | ТО | CONCENTION | 70111 2 |
| 2,4,5-T | 1 | 17.286 | 0.000 | 0.000 | 9.04 | |
| | 2 | 17.126 | 0.000 | 0.000 | 9.49 | 5.3 |
| 2,4,5-TP (Silvex) | 1 | 17.057 | 0.000 | 0.000 | 9.50 | |
| | 2 | 16.745 | 0.000 | 0.000 | 10.3 | 8.1 |
| 2,4-D | 1 | 15.583 | 0.000 | 0.000 | 95.0 | |
| | 2 | 15.013 | 0.000 | 0.000 | 102 | 7.1 |
| 2,4-DB | 1 | 17.644 | 0.000 | 0.000 | 73.9 | |
| | 2 | 17.478 | 0.000 | 0.000 | 73.7 | 0.4 |
| Dalapon | 1 | 5.455 | 0.000 | 0.000 | 149 | |
| | 2 | 4.915 | 0.000 | 0.000 | 148 | 1.3 |
| Dicamba | 1 | 13.332 | 0.000 | 0.000 | 9.12 | |
| | 2 | 12.688 | 0.000 | 0.000 | 9.86 | 8.0 |
| Dichloroprop | 1 | 15.049 | 0.000 | 0.000 | 100 | |
| | 2 | 14.303 | 0.000 | 0.000 | 103 | 3.0 |
| MCPA | 1 | 14.195 | 0.000 | 0.000 | 10800 | |
| | 2 | 13.562 | 0.000 | 0.000 | 9010 | 19.9 |
| MCPP | 1 | 13.840 | 0.000 | 0.000 | 13000 | |
| | 2 | 13.033 | 0.000 | 0.000 | 9770 | 28.4 |



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

| 1.00 D | |
|---------|--|
| LCS Dup | |

SW-846 8151A

| Lab Sample ID: | B309280-BSD1 | | Date(s) Analyzed: | 05/29/2022 | 05/29/202 | 22 |
|--------------------|--------------|------|--------------------|------------|-----------|------|
| Instrument ID (1): | ECD 8 | • | Instrument ID (2): | ECD 8 | | |
| GC Column (1): | ID: | (mm) | GC Column (2): | | ID: | (mm) |

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|-----------------------|-----|--------|-----------|-------|---------------|---------|
| r 11 17 they r v heap | 002 | ,,, | FROM | TO | CONCENTIATION | 70111 5 |
| 2,4,5-T | 1 | 17.286 | 0.000 | 0.000 | 8.96 | |
| | 2 | 17.126 | 0.000 | 0.000 | 9.59 | 6.4 |
| 2,4,5-TP (Silvex) | 1 | 17.057 | 0.000 | 0.000 | 9.42 | |
| | 2 | 16.745 | 0.000 | 0.000 | 10.4 | 10.1 |
| 2,4-D | 1 | 15.583 | 0.000 | 0.000 | 95.8 | |
| | 2 | 15.012 | 0.000 | 0.000 | 103 | 7.0 |
| 2,4-DB | 1 | 17,644 | 0.000 | 0.000 | 73.5 | |
| | 2 | 17.479 | 0.000 | 0.000 | 74.7 | 0.9 |
| Dalapon | 1 | 5.455 | 0,000 | 0.000 | 149 | |
| | 2 | 4.916 | 0.000 | 0.000 | 149 | 0.7 |
| Dicamba | 1 | 13.332 | 0.000 | 0.000 | 9.75 | |
| | 2 | 12.688 | 0.000 | 0.000 | 9.97 | 1.7 |
| Dichloroprop | 1 | 15.048 | 0.000 | 0.000 | 101 | |
| | 2 | 14.303 | 0.000 | 0.000 | 104 | 3.9 |
| MCPA | 1 | 14.195 | 0.000 | 0.000 | 10800 | |
| | 2 | 13.562 | 0.000 | 0.000 | 9110 | 18.8 |
| MCPP | 1 | 13.841 | 0.000 | 0.000 | 13300 | |
| | 2 | 13.033 | 0.000 | 0.000 | 9870 | 27.4 |



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 FLAG/QUALIFIER SUMMARY

| * | QC result is outside of established limits. |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit is at the level of quantitation (LOQ) |
| DL | Detection Limit is the lower limit of detection determined by the MDL study |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| J | Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag). |
| M-10 | The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side. |
| O-32 | A dilution was performed as part of the standard analytical procedure. |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. |
| RL-11 | Elevated reporting limit due to high concentration of target compounds. |
| S-01 | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. |
| S-12 | Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected. |
| S-17 | Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side. |
| V-05 | Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound. |
| V-06 | Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side fo this compound. |
| V-16 | Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. |
| V-34 | Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated. |
| V-36 | Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |
| | |



CERTIFICATIONS

| Analyte | Certifications | |
|--------------------------|------------------------|------|
| SW-846 1010A-B in Soil | | |
| Flashpoint | NY,NC,ME,VA | |
| SW-846 6010D in Soil | | |
| Antimony | CT,NH,NY,ME,VA,NC | |
| Arsenic | CT,NH,NY,ME,VA,NC | |
| Barium | CT,NH,NY,ME,VA,NC | |
| Beryllium | CT,NH,NY,ME,VA,NC | |
| Cadmium | CT,NH,NY,ME,VA,NC | |
| Chromium | CT,NH,NY,ME,VA,NC | |
| Lead | CT,NH,NY,AIHA,ME,VA,NC | |
| Nickel | CT,NH,NY,ME,VA,NC | |
| Selenium | CT,NH,NY,ME,VA,NC | |
| Silver | CT,NH,NY,ME,VA,NC | |
| Thallium | CT,NH,NY,ME,VA,NC | |
| Vanadium | CT,NH,NY,ME,VA,NC | |
| Zinc | CT,NH,NY,ME,VA,NC | |
| SW-846 7471B in Soil | | |
| Mercury | CT,NH,NY,NC,ME,VA | |
| SW-846 8081B in Soil | | |
| Aldrin | CT,NC,NH,NY,ME,VA | |
| Aldrin [2C] | CT,NC,NH,NY,ME,VA | |
| alpha-BHC | CT,NC,NH,NY,ME,VA | |
| alpha-BHC [2C] | CT,NC,NH,NY,ME,VA | |
| beta-BHC | CT,NC,NH,NY,ME,VA | |
| beta-BHC [2C] | CT,NC,NH,NY,ME,VA | |
| delta-BHC | CT,NC,NH,NY,ME,VA | |
| delta-BHC [2C] | CT,NC,NH,NY,ME,VA | |
| gamma-BHC (Lindane) | CT,NC,NH,NY,ME,VA | |
| gamma-BHC (Lindane) [2C] | CT,NC,NH,NY,ME,VA | |
| Chlordane | CT,NC,NH,NY,ME,VA | |
| Chlordane [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDD | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDD [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDE | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDE [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDT | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDT [2C] | CT,NC,NH,NY,ME,VA | |
| Dieldrin | CT,NC,NH,NY,ME,VA | |
| Dieldrin [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan I | CT,NC,NH,NY,ME,VA | |
| Endosulfan I [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan II | CT,NC,NH,NY,ME,VA | |
| Endosulfan II [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan Sulfate | CT,NC,NH,NY,ME,VA | |
| Endosulfan Sulfate [2C] | CT,NC,NH,NY,ME,VA | |
| Endrin | CT,NC,NH,NY,ME,VA | |
| Endrin [2C] | CT,NC,NH,NY,ME,VA | D 65 |



CERTIFICATIONS

| Analyte | Certifications | |
|--------------------------|-------------------|--|
| SW-846 8081B in Soil | | |
| Endrin Ketone | NC | |
| Endrin Ketone [2C] | NC | |
| Heptachlor | CT,NC,NH,NY,ME,VA | |
| Heptachlor [2C] | CT,NC,NH,NY,ME,VA | |
| Heptachlor Epoxide | CT,NC,NH,NY,ME,VA | |
| Heptachlor Epoxide [2C] | CT,NC,NH,NY,ME,VA | |
| Hexachlorobenzene | NC | |
| Hexachlorobenzene [2C] | NC | |
| Methoxychlor | CT,NC,NH,NY,ME,VA | |
| Methoxychlor [2C] | CT,NC,NH,NY,ME,VA | |
| SW-846 8081B in Water | | |
| Aldrin | CT,NC,NH,NY,ME,VA | |
| Aldrin [2C] | CT,NC,NH,NY,ME,VA | |
| alpha-BHC | CT,NC,NH,NY,ME,VA | |
| alpha-BHC [2C] | CT,NC,NH,NY,ME,VA | |
| beta-BHC | CT,NC,NH,NY,ME,VA | |
| beta-BHC [2C] | CT,NC,NH,NY,ME,VA | |
| delta-BHC | CT,NC,NH,NY,ME,VA | |
| delta-BHC [2C] | CT;NC,NH,NY,ME,VA | |
| gamma-BHC (Lindane) | CT,NC,NH,NY,ME,VA | |
| gamma-BHC (Lindane) [2C] | CT,NC,NH,NY,ME,VA | |
| Chlordane | CT,NC,NH,NY,ME,VA | |
| Chlordane [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDD | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDD [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDE | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDE [2C] | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDT | CT,NC,NH,NY,ME,VA | |
| 4,4'-DDT [2C] | CT,NC,NH,NY,ME,VA | |
| Dieldrin | CT,NC,NH,NY,ME,VA | |
| Dieldrin [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan I | CT,NC,NH,NY,ME,VA | |
| Endosulfan I [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan II | CT,NC,NH,NY,ME,VA | |
| Endosulfan II [2C] | CT,NC,NH,NY,ME,VA | |
| Endosulfan Sulfate | CT,NC,NH,NY,ME,VA | |
| Endosulfan Sulfate [2C] | CT,NC,NH,NY,ME,VA | |
| Endrin | CT,NC,NH,NY,ME,VA | |
| Endrin [2C] | CT,NC,NH,NY,ME,VA | |
| Endrin Ketone | NC | |
| Endrin Ketone [2C] | NC | |
| Heptachlor | CT,NC,NH,NY,ME,VA | |
| Heptachlor [2C] | CT,NC,NH,NY,ME,VA | |
| Heptachlor Epoxide | CT,NC,NH,NY,ME,VA | |
| Heptachlor Epoxide [2C] | CT,NC,NH,NY,ME,VA | |
| Hexachlorobenzene | NC | |
| | | |



CERTIFICATIONS

| Analyte | Certifications | |
|------------------------|--------------------------------|--|
| SW-846 8081B in Water | | |
| Hexachlorobenzene [2C] | NC . | |
| Methoxychlor | CT,NC,NH,NY,ME,VA | |
| Methoxychlor [2C] | CT,NC,NH,NY,ME,VA | |
| SW-846 8082A in Soil | | |
| Aroclor-1016 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1016 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1221 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1221 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1232 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1232 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1242 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1242 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1248 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1248 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1254 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1254 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Arocior-1260 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1260 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1262 | NH,NY,NC,ME,VA,PA | |
| Aroclor-1262 [2C] | NH,NY,NC,ME,VA,PA | |
| Aroclor-1268 | NH,NY,NC,ME,VA,PA | |
| Aroclor-1268 [2C] | NH,NY,NC,ME,VA,PA | |
| SW-846 8082A in Water | | |
| Aroclor-1016 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1016 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1221 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1221 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1232 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1232 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1242 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1242 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1248 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1248 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1254 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1254 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1260 | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1260 [2C] | CT,NH,NY,NC,ME,VA,PA | |
| Aroclor-1262 | NH,NY,NC,ME,VA,PA | |
| Aroclor-1262 [2C] | NH,NY,NC,ME,VA,PA | |
| Aroclor-1268 | NH,NY,NC,ME,VA,PA | |
| Aroclor-1268 [2C] | NH,NY,NC,ME,VA,PA | |
| SW-846 8151A in Soil | | |
| 2,4-D | NY,ME,NC,NH,VA,CT | |
| .2,4-D [2C] | NY,ME,NC,NH,VA,CT | |
| 2,4-DB | NY,ME,NC,NH,VA,CT | |
| 2,4-DB [2C] | NY,ME,NC,NH,VA,CT | |
| -, () | a raparanga roopa raag raago a | |



CERTIFICATIONS

| Analyte | Certifications | |
|------------------------|-------------------|---|
| SW-846 8151A in Soil | | |
| 2,4,5-TP (Silvex) | NY,ME,NC,NH,VA,CT | |
| 2,4,5-TP (Silvex) [2C] | NY,ME,NC,NH,VA,CT | |
| 2,4,5-T | NY,ME,NC,NH,VA,CT | |
| 2,4,5-T [2C] | NY,ME,NC,NH,VA,CT | |
| Dalapon | NY,ME,NC,NH,VA,CT | |
| Dalapon [2C] | NY,ME,NC,NH,VA,CT | |
| Dicamba | NY,ME,NC,NH,VA,CT | |
| Dicamba [2C] | NY,ME,NC,NH,VA,CT | |
| Dichloroprop | NY,ME,NC,NH,VA,CT | |
| Dichloroprop [2C] | NY,ME,NC,NH,VA,CT | |
| MCPA | NY,ME,NC,NH,VA,CT | |
| MCPA [2C] | NY,ME,NC,NH,VA,CT | |
| МСРР | NY,ME,NC,NH,VA,CT | |
| MCPP [2C] | NY,ME,NC,NH,VA,CT | |
| SW-846 8151A in Water | | |
| 2,4-D | ME,NC,NH,CT,NY,VA | |
| 2,4-D [2C] | ME,NC,NH,CT,NY,VA | |
| 2,4-DB | ME,NC,NH,CT,NY,VA | |
| 2,4-DB [2C] | ME,NC,NH,CT,NY,VA | • |
| 2,4,5-TP (Silvex) | ME,NC,NH,CT,NY,VA | |
| 2,4,5-TP (Silvex) [2C] | ME,NC,NH,CT,NY,VA | |
| 2,4,5-T | ME,NC,NH,CT,NY,VA | |
| 2,4,5-T [2C] | ME,NC,NH,CT,NY,VA | |
| Dalapon | ME,NC,NH,CT,NY,VA | |
| Dalapon [2C] | ME,NC,NH,CT,NY,VA | |
| Dicamba | ME,NC,NH,CT,NY,VA | |
| Dicamba [2C] | ME,NC,NH,CT,NY,VA | |
| Dichloroprop | ME,NC,NH,CT,NY,VA | |
| Dichloroprop [2C] | ME,NC,NH,CT,NY,VA | |
| MCPA | NC,CT | |
| MCPA [2C] | NC,CT | |
| MCPP | NC,CT | |
| MCPP [2C] | NC,CT | |
| SW-846 8260D in Soil | | |
| Acetone | CT,NH,NY,ME | |
| Benzene | CT,NH,NY,ME | |
| Bromobenzene | NH,NY,ME | |
| Bromochloromethane | NH,NY,ME | |
| Bromodichloromethane | CT,NH,NY,ME | |
| Bromoform | CT,NH,NY,ME | |
| Bromomethane | CT,NH,NY,ME | |
| 2-Butanone (MEK) | CT,NH,NY,ME | |
| n-Butylbenzene | CT,NH,NY,ME | |
| sec-Butylbenzene | CT,NH,NY,ME | |
| tert-Butylbenzene | CT,NH,NY,ME | |
| Carbon Disulfide | CT,NH,NY,ME | |



CERTIFICATIONS

| Analyte | Certifications | |
|------------------------------------|----------------|--|
| W-846 8260D in Soil | | |
| Carbon Tetrachloride | CT,NH,NY,ME | |
| Chlorobenzene | CT,NH,NY,ME | |
| Chlorodibromomethane | CT,NH,NY,ME | |
| Chloroethane | СТ, NH, NY, МЕ | |
| Chloroform | CT,NH,NY,ME | |
| Chloromethane | CT,NH,NY,ME | |
| 2-Chlorotoluene | CT,NH,NY,ME | |
| -Chlorotoluene | CT,NH,NY,ME | |
| ,2-Dibromo-3-chloropropane (DBCP) | NY | |
| ,2-Dibromoethane (EDB) | NY | |
| Dibromomethane | NH,NY,ME | |
| ,2-Dichlorobenzene | CT,NH,NY,ME | |
| ,3-Dichlorobenzene | СТ, NH, NY, МЕ | |
| ,4-Dichlorobenzene | CT,NH,NY,ME | |
| Dichlorodifluoromethane (Freon 12) | NY,ME | |
| ,1-Dichloroethane | CT,NH,NY,ME | |
| ,2-Dichloroethane | CT,NH,NY,ME | |
| ,1-Dichloroethylene | CT,NH,NY,ME | |
| is-1,2-Dichloroethylene | СТ,NH,NY,МЕ | |
| ans-1,2-Dichloroethylene | CT,NH,NY,ME | |
| ,2-Dichloropropane | CT,NH,NY,ME | |
| 3-Dichloropropane | NH,NY,ME | |
| ,2-Dichloropropane | NH,NY,ME | |
| 1-Dichloropropene | NH,NY,ME | |
| s-1,3-Dichloropropene | CT,NH,NY,ME | |
| ans-1,3-Dichloropropene | CT,NH,NY,ME | |
| 4-Dioxane | NY | |
| thylbenzene | CT,NH,NY,ME | |
| exachlorobutadiene | NH,NY,ME | |
| Hexanone (MBK) | CT,NH,NY,ME | |
| opropylbenzene (Cumene) | CT,NH,NY,ME | |
| Isopropyltoluene (p-Cymene) | ин,иу | |
| lethyl tert-Butyl Ether (MTBE) | NH,NY | |
| lethylene Chloride | CT,NH,NY,ME | |
| Methyl-2-pentanone (MIBK) | CT,NH,NY | |
| aphthalene | NH,NY,ME | |
| Propylbenzene | NH,NY | |
| tyrene | CT,NH,NY,ME | |
| 1,1,2-Tetrachloroethane | CT,NH,NY,ME | |
| 1,2,2-Tetrachloroethane | CT,NH,NY,ME | |
| trachloroethylene | CT,NH,NY,ME | |
| oluene | CT,NH,NY,ME | |
| 2,3-Trichlorobenzene | NY | |
| 2,4-Trichlorobenzene | NH,NY,ME | |
| 1,1-Trichloroethane | CT,NH,NY,ME | |
| 1,2-Trichloroethane | CT,NH,NY,ME | |
| richloroethylene | CT,NH,NY,ME | |



CERTIFICATIONS

| Analyte | Certifications | |
|-----------------------------------|----------------|--|
| SW-846 8260D in Sail | | |
| | | |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,ME | |
| 1,2,3-Trichloropropane | NH,NY,ME | |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME | |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME | |
| Vinyl Chloride | CT,NH,NY,ME | |
| m+p Xylene | CT,NH,NY,ME | |
| o-Xylene | CT,NH,NY,ME | |
| SW-846 8270E in Soil | | |
| Acenaphthene | CT,NY,NH | |
| Acenaphthylene | CT,NY,NH | |
| Acetophenone | NY,NH | |
| Aniline | NY,NH | |
| Anthracene | СТ,NY,NH | |
| Benzo(a)anthracene | СТ, NY, NH | |
| Benzo(a)pyrene | CT,NY,NH | |
| Benzo(b)fluoranthene | CT,NY,NH | |
| Benzo(g,h,i)perylene | CT,NY,NH | |
| Benzo(k)fluoranthene | CT,NY,NH | |
| Bis(2-chloroethoxy)methane | CT,NY,NH | |
| Bis(2-chloroethyl)ether | CT,NY,NH | |
| Bis(2-chloroisopropyl)ether | CT,NY,NH | |
| Bis(2-Ethylhexyl)phthalate | CT,NY,NH | |
| 4-Bromophenylphenylether | CT,NY,NH | |
| Butylbenzylphthalate | CT,NY,NH | |
| 4-Chloroaniline | CT,NY,NH | |
| 2-Chloronaphthalene | CT,NY,NH | |
| 2-Chlorophenol | СТ,NY,NH | |
| Chrysene | CT,NY,NH | |
| Dibenz(a,h)anthracene | CT,NY,NH | |
| Dibenzofuran | СТ, NY, NH | |
| Di-n-butylphthalate | CT,NY,NH | |
| 1,2-Dichlorobenzene | NY,NH | |
| 1,3-Dichlorobenzene | NY,NH | |
| 1,4-Dichlorobenzene | NY,NH | |
| 3,3-Dichlorobenzidine | CT,NY,NH | |
| 2,4-Dichlorophenol | CT,NY,NH | |
| Diethylphthalate | CT,NY,NH | |
| 2,4-Dimethylphenol | CT,NY,NH | |
| Dimethylphthalate | CT,NY,NH | |
| 2,4-Dinitrophenol | CT,NY,NH | |
| 2,4-Dinitrotoluene | CT,NY,NH | |
| 2,6-Dinitrotoluene | CT,NY,NH | |
| Di-n-octylphthalate | CT,NY,NH | |
| 1,2-Diphenylhydrazine/Azobenzene | NY,NH | |
| Fluoranthene | CT,NY,NH | |
| Fluorene | NY,NH | |
| | | |



CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications | |
|------------------------|----------------|--|
| SW-846 8270E in Soil | | |
| Hexachlorobenzene | CT,NY,NH | |
| Hexachlorobutadiene | CT,NY,NH | |
| Hexachloroethane | CT,NY,NH | |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH | |
| Isophorone | СТ, ИҮ, ИН | |
| 2-Methylnaphthalene | СТ, ҮҮ, ИН | |
| 2-Methylphenol | CT,NY,NH | |
| 3/4-Methylphenol | CT,NY,NH | |
| Naphthalene | CT,NY,NH | |
| Nitrobenzene | CT,NY,NH | |
| 2-Nitrophenol | CT,NY,NH | |
| 4-Nitrophenol | CT,NY,NH | |
| Pentachlorophenol | CT,NY,NH | |
| Phenanthrene | CT,NY,NH | |
| Phenoi | CT,NY,NH | |
| Pyrene | CT,NY,NH | |
| 1,2,4-Trichlorobenzene | CT,NY,NH | |
| 2,4,5-Trichlorophenol | CT,NY,NH | |
| 2,4,6-Trichlorophenol | CT,NY,NH | |

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|-------|----------------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC - ISO17025:2017 | 100033 | 03/1/2024 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2022 |
| CT | Connecticut Department of Public Health | PH-0165 | 12/31/2022 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2023 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2023 |
| RI | Rhode Island Department of Health | LAO00373 | 12/30/2022 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2022 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2022 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2022 |
| VT | Vermont Department of Health Lead Laboratory | LL720741 | 07/30/2022 |
| ME | State of Maine | MA00100 | 06/9/2023 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2022 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2022 |
| VT-DW | Vermont Department of Health Drinking Water | VT-255716 | 06/12/2022 |
| NC-DW | North Carolina Department of Health | 25703 | 07/31/2022 |
| PA | Commonwealth of Pennsylvania DEP | 68-05812 | 06/30/2022 |
| MI | Dept. of Env, Great Lakes, and Energy | 9100 | 09/6/2022 |

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| Pace Analytical Phon | e: 413-525-2332 | | | http://www. | | s.com N OF CUSTO | any oren | ann | | uce Street | | | 381 | Rev 5 | _07/13 | /2021 | | | | | | , , |
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| Project Number: 1830.1 | 1 | | Format: | PDF | EXCEL | A | 2.0 | | CB ON | | | | | | 3 | W | 3 | 1 | 1 | | | GLASS |
| Project Manager: Q. Som Wer | TT | | Other: | ~ | | λ.Q. | | | CDOI | YL.I | | | | | 5 | 7 | | | 1 | | | PLASTIC |
| Pace Quote Name/Number: Invoice Recipient: | | | CLP Like Da | ta Pkg Required | : 🗆 | | SOXH | ILET | | 1 | | | | | 7 | 1 | 3 | 1 | 1 8 | 1 | | BACTERIA |
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| \$ P 3 | 2 (9-5) | 1(5/27 | 12 | GRATS | 1 | 0 | 3 | | - 0 | | | X | \dashv | \dashv | \dashv | \perp | _ | _ | | | Pr | repackaged Cooler? Y/N |
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| | | | | | | | | | | | | - | \dashv | - | + | + | + | - | - | - | - | A = Air S = Soil |
| | | | | | | | | | | | | - | - | + | - | - | + | | _ | | - ∮ | SL = Sludge |
| - | | | | | | | | | | | | - | \dashv | - | | + | + | | - | | 4 | SOL = Solid O = Other (please define) |
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| Received by (farginature) | Date/Time: | MA | | | 10 | | | | | | MA MCP | | | Ple | se use | the fo | liowin | g code | es to i | ndicate | 1 9 | |
| PSA 317 S/12/2 | 1810 | | | | | | | | h | ACP Certific | cation Forn | | | possic | le sam | Ple co | ncentra column | ation i | within 6 | the Co | 1.30 | N = Nitric Acid |
| Relinquisted by: (signature) | | CI W | | | | | | | F | RCP Certific | CT RCP | | | H - H | gh; M | Media | m; L - | Low; | | lean; U | ا ا | S = Sulfuric Acid |
| Received by: (signature) | Date/Time: | | | | | | | | | | | | ユ | | | | Unknov | wn | | | | B = Sodium Bisulfate |
| | | Other: | | | PWSID # | | | | | MA | State DW I | Require | ed la | Will I | Arrige. | elli linateli | na populari Profesionari | | indiadire | leane (iii *4) | | X = Sodium Hydroxide |
| Relinquished by: (signature) | Date/Time: | Project Enti | ty Sovernment | | | 14- | | | | | | | 177 | | er en Proper | Oth | er | | | nichtigen in fell | | T = Sodium Thiosulfate |
| Received by: (signature) | Date/Time: | | ederal | = | Municipal 21 J | lity | | | MWRA School | | | WRT | A | | | | | | matog | | | O = Other (please |
| Comments: | | | ity | - | Brownfiel | ld | | | MBTA | Ė | | | | | | | L.J | AIHA | -LAP, | LLC. | | define) |
| Page 63 | | | | | | | | | analyse | s the lab | y is a leg oratory v | vili de | erfón | nt th | at mu nv mis | st be | form | ete a | nd ac | curate | and is | e Chain of Custody. The used to determine what ory's responsibility. Pace |
| of 64 | | | | | | | | | Analytic | cai value | s your pa | irtner | ship i | on ea | ch pro | ject a | and wi | ll try | to as | sist wil | th miss | sing information, but will |

Table of Contents

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____





| | Over Sample | es | | 1/-10 | IUU Doc#1 | 77 Rev 5 201 | , | au |
|--------------------------------------------------------------|--------------------------------------------------|-------------------------------------|----------------|--------------------------|----------------------|-------------------------------------------------|------------|-------------|
| Login | Sample Re | ceipt Checklist | - (Rejection (| I≀ Criteria Listino | g - Using Accepta | | | |
| | Staten | nent will be brou | ight to the a | tention of the | Client - State Tru | ie or False | iy i aise | |
| Client | CO | \mathcal{M} | | | | | | |
| Recei | ved By | 9)K | | Date | 5/12/22 | Time | 1810 | |
| low were | the samples | In Cooler | 7 | No Cooler | On Ice | - T | No Ice | |
| rece | eived? | Direct from Sam | nling | | | \ | - | - |
| | | Direct from Sam | | | Ambient | | Melted Ice | |
| | nples within | comp | By Gun # | _5_ | Actual Ter | n <u>p- </u> | | - |
| • | ure? 2-6°C | | By Blank # | | Actual Ter | | | |
| | s Custody Se | | MA | | Samples Tampere | | NA | _ |
| | s COC Relin | | (| Does C | hain Agree With Sa | amples? | 1 | - |
| | nk/ Legible? | eaking/loose caps | s on any sam | | | | - | |
| | include all | Client | - 4 | Analysis | es received within I | | - T- | - |
| | formation? | Project | | ID's | | ler Name n Dates/Times | | _ |
| | | out and legible? | 7 | | | , Dates/ I Miles | | - |
| | ab to Filters? | | = | v | Vho was notified? | | | |
| there R | ushes? | | E | | Vho was notified? | | | - |
| there SI | hort Holds? | | 7 | | Vho was notified? | Javic | · | - |
| here eno | ugh Volume | ? .,« | 一 | | | | ;; | - |
| | | re applicable? | 7 | MS | /MSD? F | | - " | |
| | ia/Containers | | ユ | İs s | plitting samples re | quired? | } | |
| - | anks receive | | <u></u> | On | cocs <u>F</u> | _ | | • |
| | les have the | proper pH? | AV | Acid age | | Base | *114 | • |
| ik e | | | | | | | | |
| p- | | 1 Liter Amb. | | 1 Liter Plas | | 16 oz | | |
| L- oh- | | 500 mL Amb. | | 500 mL Pla | | 8oz(Am | | 4 |
| ulfate- | | 250 mL Amb. Flashpoint | | 250 mL Pla | | 4oz Am | | |
| mato | | Other Glass | | Col./Bacte Other Plas | | 2oz Am | | |
| sulfate- | | SOC Kit | | Plastic Ba | | Frozen: | ore | |
| uric- | | Perchlorate | | Ziplock | 9 | 1 102017. | | |
| | | | | Unused Med | - | | | |
| | | Partition . | | | | | | |
| | enegradicaes a | 1 Liter Amb. | | 1 Liter Plas | | 16 oz | Amb | |
|)- | | 500 mL Amb. | | 500 mL Pla | | 8oz Am | | |
| <u>-</u> | | 250 mL Amb. | | 250 mL Pla | | 4oz Am | | |
| | | | | | | | | |
| oh- | | Col./Bacteria | | Flashpoin | t I | 2oz Am | b/Clear | |
| oh- ulfate- | | | | Flashpoin Other Glas | | 2oz Am Enc | | |
| oh- ulfate- osulfate- | | Col./Bacteria Other Plastic SOC Kit | | Other Glas Plastic Ba | s | | | |
| o- L- oh- ulfate- osulfate- furic- nments: | | Col./Bacteria Other Plastic | | Other Glas | s | Enc | | |

| 0834 6860 Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | Table of Con | tents |
|---------------------------------------------------------------------------------------------------|-----|--------|--------------|-------|
| 6860 Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | | |
| Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | 083 | 34 | | |
| Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | | |
| Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | | |
| Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | | |
| Perchlorate CAM VIII B () MassDEP APH CAM IX A () TO-15 VOC CAM IX B () status Yes | | | | |
| CAM IX A () TO-15 VOC CAM IX B () Status Yes | | Perchl | | |
| CAM IX B () status Yes No¹ | | | | |
| ☐ Yes ☐ No¹ | | | | |
| ☐ Yes ☐ No¹ | sta | atus | | |
| ☐ Yes ☐ No¹ | | ☑ Yes | □No¹ | |
| ☑ Yes ☐ No¹ ☐ Yes ☐ No¹ ☐ Yes ☐ No¹ | | ☑ Yes | □No¹ | |
| ☐ Yes ☐ No¹ | | ☑ Yes | □No¹ | |
| ☐ Yes ☐ No¹ | | ☑ Yes | □No¹ | |
| | | ☐Yes | □No¹ | |
| ☑ Yes □No¹ | | □Yes | □No¹ | |
| | | ☑ Yes | □No¹ | |

| MADEP MCP Analytical Method Report Certification Form | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|--------------------------------|--------------------------------------|------------------|------------------|--|--|
| Lab | Laboratory Name: Con-Test, a Pace Analytical Laboratory Project #: 22E0834 | | | | | | | | |
| Proj | Project Location: 240 Beaver St., Waltham, MA RTN: | | | | | | | | |
| This | Form provide | s certifications for t | he following data se | t: [list Laboratory San | nple ID Number(s)] | | | | |
| 22 | E0834-01 thre | u 22E0834-02 | | | | | | | |
| Matr | ices: | Soil | | | | | | | |
| С | CAM Protocol (check all that below) | | | | | | | | |
| | 260 VOC | | | | 6860 Perchlorate CAM VIII B () | | | | |
| | 3270 SVOC 7010 Metals MassDEP VPH 8081 Pesticides 7196 Hex Cr MassDEP APH CAM II B (X) CAM III C () (GC/MS) CAM V B (X) CAM VI B () CAM IX A () | | | | | | | | |
| | Metals III A (X) | 6020 Metals CAM III D () | MassDEP EPH CAM IV B () | 8151 Herbicides CAM V C (X) | 8330 Explosives CAM VIII A () | TO-15 CAM IX | 1 | | |
| | A | ffirmative response | to Questions A throu | ghF is required for "P | resumptive Certainty" | ' status | | | |
| Α | A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | | | | | | | | |
| В | | | | | | | | | |
| С | | | | | | | | | |
| D | | | | | | | | | |
| Еa | E a VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | | | | | | | | |
| Еb | to the manufactor of the manuf | | | | | | | | |
| F | | | | | | | | | |
| | A response to questions G, H and I below is required for "Presumptive Certainty" status | | | | | | | | |
| G | G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM □ Yes □ No¹ Protocol(s)? | | | | | | | | |
| <u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350. | | | | | | | | | |
| Н | Were all QC pe | rfomance standards sp | ecified in the CAM proto | col(s) achieved? | | □ _{Yes} | ☑ _{No¹} | | |
| ı | I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? ☑ Yes ☑ No¹ | | | | | | | | |
| ¹ All I | ¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative. | | | | | | | | |
| l, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete. | | | | | | | | | |
| Sign | Signature: Position: Laboratory Director | | | | | | | | |
| Prin | Printed Name: Tod E. Kopyscinski Date: 05/30/22 | | | | | | | | |